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INTRODUCTORY NOTES

NOTES ON TRANSLITERATION

Vomel-Sounds

a has the sound of a in 'woman.' ā has the sound of a in 'father.' c has the vowel-sound in 'grey.' i has the sound of i in 'pin.' ī has the sound of i in 'police.' o has the sound of a in 'bone.' u has the sound of a in 'bone.' u has the sound of a in 'flute.' at has the vowel-sound in 'mine.' at has the vowel-sound in 'house'

It should be stated that no attempt has been made to distinguish between the long and short sounds of e and o in the Dravidian languages, which possess the vowel-sounds in 'bet' and 'hot' in addition to those given above. Nor has it been thought necessary to mark vowels as long in cases where mistakes in pronunciation were not likely to be made.

Consonants

Most Indian languages have different forms for a number of consonants, such as d, t, r, &c., marked in scientific works by the use of dots or italics. As the European ear distinguishes these with difficulty in ordinary pronunciation, it has been considered undesirable to embarrass the reader with them; and only two notes are required. In the first place, the Arabic k, a strong guttural, has been represented by k instead of q, which is often used. Secondly, it should be remarked that aspirated consonants are common; and, in particular, dh and th (except in Burma) never have the sound of th in 'this' or 'thin,' but should be pronounced as in 'woodhouse' and 'boathook.'

Recruese Words

Burmese and some of the languages on the frontier of China have the following special sounds:—

- aw has the vowel-sound in 'law.'
 - o and it are pronounced as in German.
- gy is pronounced almost like j in 'jewel.'
- ky is pronounced almost like ch in 'church.'
- th is pronounced in some cases as in 'this,' in some cases as in 'thin.'
 - w after a consonant has the force of use. Thus, ywa and pwe are disyllables, pronounced as if written yuwa and puwe.

It should also be noted that, whereas in Indian words the accent or stress is distributed almost equally on each syllable, in Burmese there is a tendency to throw special stress on the last syllable.

General

The names of some places e.g. Calcutta, Bombay, Lucknow, Cawnpore—have obtained a popular fixity of spelling, while special forms have been officially prescribed for others. Names of persons are often spelt and pronounced differently in different parts of India; but the variations have been made as few as possible by assimilating forms almost alike, especially where a particular spelling has been generally adopted in English books.

NOTES ON MONEY, PRICES, WEIGHTS AND MEASURES

As the currency of India is based upon the rupec, all statements with regard to money throughout the Gazetteer have necessarily been expressed in rupces, nor has it been found possible to add generally a conversion into sterling. Down to about 1873 the gold value of the rupce (containing 165 grains of pure silver) was approximately equal to 25., or one-tenth of a £; and for that period it is easy to convert rupces into sterling by striking off the final cipher (Rs. 1.000 = £100). But after 1873, owing to the depreciation of silver as compared with gold throughout the world, there came a serious and progressive fall in the exchange, until at one time the gold value of the rupee dropped as low as 1s. In order to provide a remedy for the heavy loss caused to the Government of India in respect of its gold payments to be made in England, and also to relieve foreign trade and finance from the inconvenience due to constant and unforeseen fluctuations in exchange, it was resolved in 1893 to close the mints to the free coinage of silver, and thus force up the value of the rupec by restricting the circulation. The intention was to raise

the exchange value of the rupee to 1s. 4d., and then introduce a gold standard (though not necessarily a gold currency) at the rate of Rs. 15 = £1. This policy has been completely successful. From 1899 onwards the value of the rupee has been maintained, with insignificant fluctuations, at the proposed rate of 1s. 4d.; and consequently since that date three rupees have been equivalent to two rupees before 1873. For the intermediate period, between 1873 and 1899, it is manifestly impossible to adopt any fixed sterling value for a constantly changing rupee. But since 1899, if it is desired to convert rupees into sterling, not only must the final cipher be struck off (as before 1873), but also one-third must be subtracted from the result. Thus Rs. 1,000 = £100 $-\frac{1}{3}$ = (about) £67.

Another matter in connexion with the expression of money statements in terms of rupees requires to be explained. The method of numerical notation in India differs from that which prevails throughout Europe. Large numbers are not punctuated in hundreds of thousands and millions, but in lakhs and crores. A lakh is one hundred thousand (written out as 1,00,000), and a crore is one hundred lakhs or ten millions (written out as 1,00,000). Consequently, according to the exchange value of the rupee, a lakh of rupees (Rs. 1,00,000) may be read as the equivalent of £10,000 before 1873, and as the equivalent of (about) £6,667 after 1899; while a crore of rupees (Rs. 1,00,000) may similarly be read as the equivalent of £1,000,000 before 1873, and as the equivalent of (about) £666,667 after 1800.

Finally, it should be mentioned that the rupee is divided into 16 annas, a fraction commonly used for many purposes by both natives and Europeans. The anna was formerly reckoned as $1\frac{1}{2}d$; it may now be considered as exactly corresponding to 1d. The anna is again subdivided into 12 pies.

The various systems of weights used in India combine uniformity of scale with immense variations in the weight of units. The scale used generally throughout Northern India, and less commonly in Madras and Bombay, may be thus expressed: one maund = 40 seers; one seer = 16 chittaks or 80 tolas. The actual weight of a seer varies greatly from District to District, and even from village to village; but in the standard system the tola is 180 grains Troy (the exact weight of the rupee), and the seer thus weighs 2.057 lb., and the maund 82.28 lb. This standard is used in official reports and throughout the Gazetteer.

For calculating retail prices, the universal custom in India is to express them in terms of seers to the rupee. Thus, when prices change, what varies is not the amount of money to be paid for the

same quantity, but the quantity to be obtained for the same amount of money. In other words, prices in India are quantity prices, not money prices. When the figure of quantity goes up, this of course means that the price has gone down, which is at first sight perplexing to an English reader. It may, however, be mentioned that quantity prices are not altogether unknown in England, especially at small shops, where pennyworths of many groceries can be bought. Eggs, likewise, are commonly sold at a varying number for the shilling. If it be desired to convert quantity prices from Indian into English denominations without having recourse to money prices (which would often be misleading), the following scale may be adopted—based upon the assumptions that a seer is exactly 2 lb., and that the value of the rupee remains constant at 1s. 4d.: 1 seer per rupee = (about) 3 lb. for 2s.; 2 seers per rupee = (about) 6 lb. for 2s.; and so on.

The name of the unit for square measurement in India generally is the *bigha*, which varies greatly in different parts of the country. But areas have always been expressed throughout the *Gazetteer* either in square miles or in acres.

IMPERIAL GAZETTEER OF INDIA

VOLUME XIV

Jaisalmer State.—The most western and the third in size of the States of Rājputāna, lying between 26° 4' and 28° 23' N. and 69° 30' and 72° 42' E., with an area of 16,062 square miles. It is bounded on the north by Bahāwalpur; on the west by Sind; on the south and east by Jodhpur; and on the north-east by Bīkaner. The country is almost entirely a sandy waste, forming part of

what is known as the Great Indian Desert. In the neighbourhood of Jaisalmer town, and within a circuit

Physical aspects.

of about 40 miles, the soil is very stony, and numerous low rocky ridges and hard undulating plains occur; but with this exception the general aspect is that of an interminable sea of sandhills of all shapes and sizes, some rising to a height of 150 feet. The sandhills in the west are covered with phog (Calligonum) bushes, and those in the east with tufts of long grass. Shifting sands, locally termed dhrians, are common. Nothing can well bear a more desolate appearance. The villages are few and far between, sparsely populated, and consist as a rule of a few circular huts or wigwams collected round a well of brackish water. A small stream called the Kākni rises near the village of Kotri, 17 miles south of the capital, and after flowing first in a northerly and next in a westerly direction, forms a lake called the Bhuj jhīt; in years of heavy rainfall it deviates from its usual course, and instead of turning to the west continues north for about 12 miles till checked by the recently constructed Daiya dam.

The surface of the country is to a large extent covered by dunes of blown sand of the transverse type: that is, with their longer axes at right angles to the direction of the prevailing wind. Rocks of Jurassic age, such as sandstones, shales, and limestones, crop out from beneath the sand, and a large area of Nummulitic rock occurs to the north-west of the capital.

The fauna is not much varied. Wild hog and leopards are occasionally seen; antelopes are found in the east; while the Indian gazelle, the bustard, and several species of sand-grouse are more or less common.

The climate is dry and healthy, but the hot season is very prolonged and the heat is intense and trying. The temperature is highest in May and June, when hot winds prevail with much violence, while the coldest period is in January, the thermometer frequently falling below freezing-point. The rainfall is precarious and varies in different parts. The annual fall at the capital since 1883 has averaged between 6 and 7 inches. Statistics for other places in the State are available only since 1895, and they show that the fall is usually a little greater in the east and south, and less as one proceeds west. The year of heaviest rainfall was 1883, when more than 15 inches were registered at Jaisalmer, while in 1899 no rain at all fell at Khābha to the south-west and Rāmgarh to the north-west.

The chiefs of laisalmer are Rainuts of the ladon clan, and claim descent from the deified hero. Krishna. According to the annals of the State, the tribe became dispersed at the death History. of Krishna, and many of them, including two of his sons, proceeded northwards beyond the Indus and settled there. One of their descendants, Gai, is said to have built a fort called Gaini (identified by Tod as the Ghazni of Afghānistān, but believed by Cunningham to be in the vicinity of Rawalpindi); but being defeated and killed in a battle with the king of Khorasan, his followers were driven southward into the Puniab, where Salivahan established a new capital, which he called after himself, and which has been identified with Sialkot. This chief subsequently defeated the Indo Scythians in a decisive battle near Kahror, within 60 miles of Multan. So great was the fame of this victory that the conqueror assumed the title of Sākāri, or ' foc of the Sākas' (Scythians), and further to commemorate the event established the Sāka era from the date of the battle (A, D, 78), an enoch which is still in general use throughout India. Sāliyāhan's grandson, Bhāti, was a renowned warrior who conquered many of the neighbouring chiefs, and from him the tribe now takes the name of Bhāti Jādons. Subsequently, the Bhātis were gradually driven southwards till, crossing the Sutlej, they took refuge in the Indian desert which has since been their home. Here they came into contact with various Raiput clans, such as the Būtas and Chunnas (both extinct). the Barāhas (now Musalmāns), the Langāhas, and the Sodhas and Lodras (both branches of the Paramāras). Their first capital was at Tanot, still in Jaisalmer territory, which was founded about the middle of the eighth century; but being ousted from this, Deorãi, the first chief to assume the title of Rāwal, built Deogarh or Deorāwar in 853, now called Derāwar in Bahāwalpur territory, and established himself there. Shortly afterwards, the capital was changed to Lodorya. an immense city with twelve gates taken from the Lodra Rajputs, the ruins of which lie to miles west-by-north of Jaisalmer town. Lodorva

was however, ill adapted for defence, so Jaisal sought for a stronger place and founded the fort and city of Jaisalmer in 1156. He was succeeded by several warlike chiefs who were constantly engaged in raids and battles, but their passion for freebooting proved disastrous. Authentic history begins at the end of the thirteenth and the beginning of the fourteenth centuries, when the Bhatis so enraged Ala-ud-din that his army captured and sacked the fort and city of Jaisalmer, which for some time remained deserted. Sabal Singh, who began to rule about 1651, was the first of the Bhāti chiefs who held his dominions as a fiel of the Delhi empire. According to the annals of the Kishangarh State, he served in Peshāwar and Kandahār, and received the grant of Jaisalmer through the intercession of his cousin, Rājā Rūp Singh of Kishangarh. Jaisalmer had now arrived at the height of its power: the territory extended north to the Sutlei, comprised the whole of Bahāwalpur westward to the Indus, and to the east and south included many districts subsequently annexed by the Rathors and incorporated in Mārwār and Bīkaner. But from this time till the accession of Mahārāwal Mulrāj in 1762 the fortunes of the State rapidly declined, and most of the outlying districts were lost. Owing, however, to its isolated situation it escaped the ravages of the Marathas, and it was partly for this reason that Jaisalmer was one of the last States in Raiputana to be taken under the protection of the British Govern-By the treaty dated December 12, 1818, concluded with Mulrāi, the succession was guaranteed to his posterity; the chief was to be protected from serious invasions and dangers to his State. provided he was not the originator of the quarrel, and he was to act in subordinate co-operation with the British Government. Apart from this treaty, the only important events of Mulrāj's rule were the cruel atrocities of his minister, Mehta Salim Singh. According to Tod. this man, a Mahājan by caste and a Jain by religion, united 'the subtlety of the serpent to the ferocity of the tiger.' He put to death nearly all the relatives of the chief. With commercial men and with the industrious agriculturists or pastoral communities 'he had so long forfeited all claim to credit that his oath was not valued at a single grain of the sand of their own desert dominion'; and finally he drove out the Pāliwāl Brāhmans, famous as enterprising cultivators and landholders. who had constructed most of the kharins or irrigation tanks now to be found in the State, and whose solid well-built villages still stand deserted, marking an era of prosperity to which it will be difficult for the State ever again to attain. Salim Singh, however, was mortally wounded by a Rajput in 1824, and, as there was some fear that the wound night heal, his wife gave him poison. Mulrāj, who had died four years before, was succeeded by his grandson Gai Singh. In 1829 a Bikaner army invaded Jaisalmer to revenge some injuries committed

by subjects of the latter; but the British Government interfered, and through the arbitration of the Mahārāna of Udaipur the dispute was settled. In 1844, after the British conquest of Sind, the forts of Shāhgarh, Garsia, and Ghotāru, which had formerly belonged to Jaisalmer, were restored; and in 1846 Gaj Singh died. His widow adopted his nephew Ranjīt Singh, who ruled till 1864, when he was succeeded by his younger brother, Bairi Sāl. On the death of the latter in 1891, his widows adopted Syām Singh, son of Thākur Kushāl Singh of Lāthi; and the choice being confirmed by the Government of India, Syām Singh succeeded and took the family name of Sālivāhan. He was born in 1887, and has been a student at the Mayo College at Ajmer since 1894. The Mahārāwal of Jaisalmer is entitled to a salute of 15 guns.

Among places of archaeological interest may be mentioned the village and fort of Birsilpur (in the north-east), said to have been founded in the second century; Tanot, the first desert capital of the Bhātis, with its fort and temple dating from the eighth century; Lodorva, which has a Jain temple said to be over 1,000 years old; and Sirwa, a village about 24 miles south-by-south-east of Jaisalmer town, which possesses a building with thirty-two pillars said to have been creeted in 820.

The number of towns and villages in the State is 472, and the population at each Census was: (1881) 108,143, (1891) 115,701, and

Population.

(1901) 73,370. The decrease of over 36 per cent. in the last decade was due to the famine of 1899–1900, and excessive mortality and emigration resulting therefrom. The only town in the State is the capital, Jaisalmer (population, 7,137). The State is divided into sixteen districts or hukūmats, the areas of which vary from about 2,220 to 262 square miles; one district has 100 villages, while two others have but one each; and again one district has one person per square mile, while the most densely populated has but fifteen. Indeed, the density per square mile for the whole State is but 4:56. In 1901 Hindus numbered 51,990, or 70 per cent. of the total; Musalmāns, 18,648, or more than 25 per cent.; Animists, 1.55t; and Jains, 1,178. The languages mainly spoken are Mārwārī and Sindī.

The most numerous tribe is that of the Rājputs, who number 31,000, or over 42 per cent. of the total, but more than one-third of them are Musalmāns. Next come the Chamārs, who number 8,900, Shaikhs 5,600, and Mahājans 5,200. More than 36 per cent. of the people are engaged in or dependent on agriculture; but they lead a wandering life, migrating regularly to Sind in the cold season, and many are graziers and keep herds of camels, cattle, sheep, and goats.

The soil is for the most part light and sandy, and, as the rain sinks in and does not flow off the surface, a small rainfall suffices for the crops. Save in the few places where water can be stored, only rains crops such as baira. jowar, mung, moth, and til are grown, and the system of cultivation is rude. Camels are largely used for ploughing; the ploughs are light and just scratch the ground; the seed is sown broadcast, and after it has sprouted a few showers at long intervals bring it to maturity. No agricultural statistics are available; but a good deal of cultivation goes on during the rains, and in favourable seasons (which are few and far between) the produce is said to be just sufficient for the immediate wants of the people. Where the soil is harder and the surroundings hilly and rocky, irrigation is carried on to a small extent from kharins or shallow depressions into which the rain-water flows. Wheat and gram are sown in the beds of these tanks, and only very occasionally can the water be conveved by ducts to land outside. Since 1892 about Rs. 65,000 has been spent in constructing and repairing kharins, and there are now 377 Wells, being on the average 250 feet in depth, cannot be used for irrigation.

The wealth of the rural population consists almost entirely in their herds of camels, cattle, sheep, and goats, which thrive in spite of the arid nature of the country. The camels are famous for their easy paces, speed, and hardiness; they plough and harrow the ground, bring home the harvests, carry food and water, and are both ridden and driven. Cattle are bred in considerable numbers, and are of a good class; while the sheep and goats, though small, fatten well.

Salt of fair quality is found in several localities, but is manufactured only at Kanod, about 20 miles north-east of the capital. Brine occurs 10 feet below the surface, and is drawn from pits by the weighted pole and bucket. It is then exposed to evaporation in pans, and a small-grained white salt is obtained. The out-turn is limited by the agreement of 1879 with the British Government to 15,000 maunds a year, entirely for local consumption and use. There are several quarries of limestone near the capital; the stone produced is very fine, even-grained, and compact, of a buff or light-brown colour, and admirably adapted for carving. It takes a fair polish, and was at one time used for lithographic blocks. Another variety of yellow limestone is found at the village of Habur, 28 miles north-west of the capital; large quantities of an iron ore resembling red ochre are blended with it. Sandstone quarries are worked at Bhadāsar, 17 miles north-west of Jaisalmer town, and fuller's earth and other clays exist in several places.

with the result that at the present time the State owes about 2 lakhs to the British Government.

Jaisalmer has its own coinage, called Akhai shāhi after Mahārāwal Akhai Singh, who established a mint at the capital in 1756. The local rupee in 1895 was worth more than 15 British annas, but now exchanges for about 11; its value fluctuates almost daily, and has been as low as 9 annas. The mint has not been worked since 1899, and the Akhai shāhi coins will be converted as soon as possible.

The land revenue system has undergone no changes for a long period, and neither a survey nor any regular settlement has been undertaken. The revenue is mostly paid in kind. Where wheat or gram is grown, the State takes from one-fifth to one-sixth of the produce; and of the rains crops from one-fifth to one-eleventh. There are four different modes of estimating the State share of the out-turn. first, the crop is valued when standing; in the second, when cut, but before threshing; in the third, after it has been threshed out gand in the fourth, from the condition of the bare standing stalks. In addition to the portion payable to the State, the cultivator has to settle the demands of the men told off to watch the crops in the Darbar's interests and of certain other officials; these demands collectively amount to about half of what is taken by the State. In places, the land revenue is paid in cash at Rs. 2 (local currency) for as much land as can be cultivated with a pair of bullocks. Of the 471 villages in Jaisalmer, 239 are khā/sa, or pay revenue direct to the State, 88 are held by jagirilirs, 24 as charitable grants, 11 under title-deeds, 99 in bhum, and 10 for services to the State. Only one of the jagirdars pays tribute; but all serve the Darbar when called on, pay meeta or fee on succession, and present the chief with a horse on certain occasions. Lands given in charity (sāsan) enjoy complete immunity from all State dues and are practically grants in perpetuity. Those who hold under title-deeds (patta) or for service rendered to the State pay nothing, but retain their estates at the pleasure of the Darbar; while the bhamias have to serve when called on, and pay a fixed sum yearly, as well as certain sums on such occasions as the chief's accession, marriage, &c.

The State troops number 220 of all arms: namely, 39 cavalry, 168 infantry, and 13 artillerymen. Out of 25 guns, 17 are serviceable. The annual expenditure on the army is about Rs. 10,000. The police force numbers 152 men, of whom 72 are mounted, chiefly on camels, and the annual cost is about Rs. 9,000. There is one jail (at the capital), and small lock-ups in the districts.

In regard to the literacy of its population Jaisalmer stands tenth among the twenty States and chiefships of Rājputāna, with 2-9 per cent. (5-4 males and 0-1 females) able to read and write. Excluding indigenous schools managed by Jatis (Jain priests), the State now contains

three schools. In 1901 the vernacular alone was taught, the attendance was 69, and the expenditure about Rs. 600. In 1903 English classes were started at the capital, and the attendance at the three institutions has now risen to 183 and the expenditure to about Rs. 1,100. No fees are charged.

The State possesses a small hospital and a lunatic asylum, both at the capital, which cost about Rs. 3,000 a year. A staff of vaccinators is employed, who in 1904-5 successfully vaccinated 1,104 persons, or 15

per 1,000 of the total population.

[C. K. M. Walter, Gazetteer of Jaisalmer (1877); Rajputana Gazetteer, vol. ii (1879, under revision); Report on Famine-Relief Operations during 1896-7; A. Adams, The Western Rajputina States (1899).]

Jaisalmer Town,-('apital of the State of the same name in Rāiputāna, situated in 26° 55' N. and 70° 55' E., about 90 miles north of the Jodhour-Bikaner Railway at Barmer, and approximately 1,200 miles north-west of Calcutta, and 600 north of Bombay. Population (1001), 7,137. The town was built by and named after Rawal laisal in 1156. It stands at the south end of a low range of hills, and is surrounded by a substantially built stone wall, a miles in circuit' 10 to 15 feet high, 5 feet thick, and strengthened by bastions and corner towers. The two main entrances, one on the west and the other on the east, are connected by a metalled and paved road, fairly wide in most parts, which is the principal thoroughfare: the other streets are chiefly narrow passages- narrowest where some of the finest houses stand, as the well-to-do were able to encroach when rebuilding or improving their residences. A large portion of the space within the walls is unoccupied, but the ruins lying about prove that the place must have been far more populous in former times. the south, on a hill overlooking the town, stands the fort. This hill is about 250 feet above the surrounding country, and 500 yards long by 250 wide at its greatest diameter. It is entirely covered with buildings and defences; and the base is surrounded by a buttress wall of solid blocks of stone about 15 feet high, above which the hill projects and supports the ramparts, forming a double line of defence. The bastions are in the form of half towers, surmounted by high turrets and joined by short thick walls; these again support battlements which form a complete chain of defence about 30 feet above the hill. fort is approached by one entrance on the town side, which has four gates. Within the fort is the Mahārāwal's palace, an imposing pile crowned by a huge umbrella of metal mounted on a stone shaft, a solid emblem of dignity of which the Bhati chiefs are justly proud; but the interior is ill-arranged and space is frittered away in numberless small The houses are all substantially built of stone and mortar and flat-roofed. Most of them have beautifully carved fronts of the yellow limestone found locally, which is easily chiselled when first quarried, and becomes harder on exposure. The Jain temples in the fort are very fine, the carving in them being exquisite; some of them are said to be 1,400 years old. The town possesses a post office, a jail with accommodation for 88 prisoners (the daily average strength in 1904 being 54), an Anglo-vernacular school and a primary Hindi school attended by 160 boys, and a hospital with accommodation for 6 in-patients.

Jai Samand.—Lake in Udaipur State, Rājputāna. See Dhebar

Jaito.—Town in the Phul nizāmat of Nābha State, Punjab, situated in 30° 26' N. and 74° 56' E., on the Ferozepore-Bhatinda branch of the North-Western Railway, 40 miles east of Ferozepore. Population (1901), 6,815. Jaito possesses a large grain market, and an important cattle fair is held here in the month of February. It has a police station, a dispensary, and a primary school.

Jājmau.—Former name of the CAWNFORE tahsil, Cawnpore District, United Provinces.

Jājpur Subdivision.—North-western subdivision of Cuttack District, Hengal, lying between 20° 39′ and 21° 10′ N. and 85° 42′ and 86° 37′ E., with an area of 1,115 square miles. The population in 1901 was 560,402, compared with 525,910 in 1891. The west of the subdivision lies on the fringe of the Chotā Nāgpur plateau, and this portion is very sparsely populated; towards the east, which consists of a fertile highly cultivated plain, the density increases, the average for the whole sub livision being 503 persons per square mile. It contains one town, JAJPUR (population, 12,111), its head-quarters; and 1,580 villages.

Jaipur Town.—Head-quarters of the subdivision of the same name in Cuttack District, Bengal, situated in 20° 51' N. and 86° 20' E., on the right bank of the Baitarani river. Population (1901), 12.111. Under the early kings of the Kesari dynasty Jajour was the capital of Orissa, and in the sixteenth century it was the scene of the struggle between the Musalmans and Hindus, from which it emerged in ruins. It is still a resort for pilgrims, but has comparatively little trade. It contains many interesting buildings, among which the most striking are the temples of Biroda Devi, of the Boar incarnation of Vishnu, and the great sun pillar that stands a mile outside the town. This latter consists of a huge and beautifully proportioned column of stone raised on a solid pedestal; and if the temple was in proportion, it must have been of a remarkable size. All traces of it have, however, disappeared, and the column has escaped only owing to its great weight, which prevented its would-be destroyers from moving it. Besides these, some ancienty heroic figures of gods and goddesses are standing or lying in the compound of the subdivisional office. They are considered to be fine

specimens of Hindu art, but all bear traces of Muhammadan vandalism in their mutilated features, from which the noses were cut by the renegade Kāla Pāhār. Interesting, too, are the grim features of the seven 'mothers of the earth' in a dark little gallery by the river bank, but there is little beauty in any of these early works. The Muhammadan mosque built by Nawāb Abu Nasīr in the seventeenth century is an elegant building, which has lately been restored by the Public Works department. Jājpur was constituted a municipality in 1869. The income during the decade ending 1901-2 averaged Rs. 5,800, and the expenditure Rs. 5,300. In 1903-4 the income was Rs. 7,600, mainly from a tax on persons (or property tax); and the expenditure was Rs. 6,700. The town contains the usual public offices; the subjail has accommodation for twelve prisoners.

Jājpur.—District and head-quarters thereof in Udaipur State, Rājputāna. See Jahazpur.

Jakasna.—Petty State in Mahī Kāntha, Bombay.

Jākhau.—Petty State in Kāthiāwāk, Bombay.

Jākhau.—Seaport in the State of Cutch, Bombay, situated in 23° 14′ N. and 68° 45′ E., on the south-west coast, 60 miles south-west of Bhūj. Population (1901), 5,059. The town stands between 3 and 4 miles inland, in a plain bare of trees but yielding abundant crops. The landing-place is at Godia creek, 5 miles from the sea, dry at low water, but with a depth of from 8 to 12 feet at high tide. At springs, boats of from 20 to 25 tons burden can pass up. There is a stretch of backwater from the Indus to the Godia creek, known as Bagda, navigable by craft of 8 and 10 tons all the year round. Jakhau carries on a large trade with Bombay, exporting grain and importing piece-goods, groceries, timber, sugar, oil, and dates. The municipal income in 1903–4 was Rs. 800.

Jalālābād District.—A large district in Afghānistān. It was formerly a province, and contains the tracts known as Kāfiristān, Kunar, Laghmān, Tagao, Ningrahār, Safed Koh, and Jalālābād. The head-quarters are at Jalālābād Town. The district is bounded on the north by Badakhshān; on the east by Chitrāl and territory within the sphere of British influence; on the south by Afrīdī Tīrāh; and on the west by the Kābul province. The whole country is intersected by vast mountain ranges, which include the eastern extremity of the Hindu Kush with its numerous spurs and branches. The Safed Koh forms its southern boundary, separating the Jalālābād valley from Afrīdī Tīrāh. From its highest point, Sikarām (15,600 feet), this range falls gently to the west and gradually subsides in long spurs, reaching to within a few miles of Kābul and barring the road from Kābul to Ghazni. The district is drained by the Kābul basin, which receives, besides numerous other streams, the waters of the Panjshīr, Tagao,

Alishang, Alingar, and Kunar. The valleys of the first three lead into Kāfiristān; and the Kunar affords a means of communication with Chitral, Badakhshān, and the Pāmirs.

The district is inhabited by various races. The principal Afghan tribes are the Shinwaris, Khugianis, Mohmands, and Ghilzais. Tajiks are fairly numerous, and there are small communities of Arabs and Hindus. Kunar contains people of the same race as the Chitralis; in Tagao and Laghman Safis are found in considerable numbers, especially in the former valley. The Safis speak a language of Indo-Arvan origin, resembling that of the inhabitants of KAFIRISIAN. There can be little doubt that the Safis were originally Kafirs, who have been converted to Islam during the last few centuries. Ningrahar, or Nangrahar, the old name of the lalalabad valley, is now applied to the southern portion. Bellew (Races of Afghanistan) writes that it is supposed by some to signify 'the nine rivers,' though the valley does not contain so many, and is explained to be a combination of the Persian nuh, 'nine,' and the Arabic nahar, 'river,' It is, however, as he points out, a word of much more ancient date; and purely of Sanskrit derivation-nawa vihārā, 'the nine monasteries,' the valley having been a flourishing seat of Buddhism so late as the fifth century.

The climate of the plans of Jalālabād bears a general resemblance to that of Peshāwar. For two months in the hot season the heat is excessive. Rain usually falls in the months of December, January, and Pebruary; snow rarely, it ever, on the plans east of Gandamak. During the winter, from November to May, the wind blows steadily from the west, often bringing violent dust-storms. The wide story waste of Batikot is dreaded for a pestilential simoom which blows over it in the hot season.

From an archaeological point of view lew tracts are more interesting than Jalalabad. Although it has been occupied by Muhammadans for a thousand years, there still remain abundant traces of an ancient Hindu population. The localities where these remains are found in great profusion are at Darunta, at the meeting of the Siāh Koh range with the Kābul river; in the plain east of Jalālābād town; and in the vicinity of the small village of Hadda, about six miles south of Jalālābād. Three kinds of buildings are met with: namely, topes, tumuli, and caves, all undoubtedly Buddhist. In some of the topes ancient gold coins of the Eastern Roman Empire—solidi of Theodosius, Marcian, and Leo—have been discovered. Sassanian and old Hindu coins have also been found there, but no Graeco-Bactrian.

Jalālābād Town (1).—The only town in the Jalālabād district of Afghānistān, situated in 34° 26' N. and 70° 27' E., 79 miles from Peshāwar, and 101 from Kābul; 1,950 feet above the sea. The town,

which was at one time the favourite winter residence of the Amirs, is an irregular quadrilateral, surrounded by walls extending for 2,100 vards. It is a squalid place, presenting few features of interest. It is divided into four irregular parts by streets which, starting from the various gates, meet in the centre. The permanent population is about 2.000: but this number increases tenfold in the winter, when the tribes from the neighbouring hills flock into it on account of its warmer climate. It is advantageously situated for trade, being on the main route between Peshāwar and Kābul, while roads lead from it to Ghazni, and, through Laghman, to Badakhshan and Yarkand. consists chiefly in the export of fruit and timber to Peshawar. Two hundred yards from the west gate of the city is a palace belonging to the Amir, but now rarely occupied by him. It is a striking building, constructed about 1802, in a garden 200 yards square, surrounded by high walls. The palace measures about 125 by 1.14 feet, has large underground rooms for use in the hot season, and a wide veranda all round, from which a charming view is obtained of the valley and adjacent hills. The climate of Jalalabad is similar to that of Peshawar: the heat for two months in the summer is excessive, and the autumn is the unhealthy season.

Jalālābād was founded in 1570 by the emperor Akbar. The modern history of the town dates from 1834, when it was seized and sacked by Amir Dost Muhammad. It was occupied by the British during the Afghān War of 1839-43, when Sir Robert Sale held it, in the face of extraordinary difficulties, against the Afghan leader, Muhammad Akbar Khān, from November, 1841, to April, 1842. The British forces had practically no stock of provisions, and the small garrison had to make constant sallies. Hardly had the town been made defensible, in February, 1842, when an earthquake rendered the previous work ineffectual. The 'illustrious garrison,' however, held out, and in April an attack was made on the enemy which had the effect of raising the siege. A week later General Pollock's force gave permanent relief. Jalālābād was again occupied by British troops during the Afghān War of 1879-80. The British built a fort, called Fort Sale, about a mile east of the town. In this were hospitals and quarters, and these buildings, which are still kept in repair, are now occupied by Afghan troops.

Jalālābād Tahsīl.—South-western tahsīl of Shāhjahānpur District, United Provinces, conterminous with the pargana of the same name, lying between 27° 35' and 27° 53' N. and 79° 20' and 79° 44' E., with an area of 324 square miles. Population increased from 158,798 in 1891 to 175,674 in 1901, the rate of increase being the highest in the District. There are 360 villages and one town, Jalālābād (population, 7,017), the tahsīl head-quarters. The demand for land revenue in

1903-4 was Rs. 2,17,000, and for cesses Rs. 35,000. The density of population, 542 persons per square mile, is about the District average. Along the south western border flows the Ganges, and the Rāmgangā crosses the centre of the tahsīl. The Ganges khādar is very poor. Beyond the khūdar a hard clay plain, called bankatī, extends up to the Rāmgangā alluvial tract. The bankatī area requires constant irrigation, which is supplied by damming numerous small streams. Near the Rāmgangā the soil is usually richer, but deposits of sand are occasionally left by the river floods. East of the Rāmgangā lies a small tract of light sandy soil, requiring irrigation. In 1903-4 the area under cultivation was 225 square miles, of which 65 were irrigated. Rivers supply more than half the irrigated area.

Jalālābād Town (2).—Head-quarters of the *tahsīl* of the same name in Shāhjahānpur District, United Provinces, situated in 27° 43′ N. and 79° 40′ E., at the junction of the roads from Bareilly and Shāhjahānpur to Farrukhābād. Population (1901), 7,017. Jalālābād is an old Pathān town, said to have been founded by Jalāl-ud-dīn Fīroz Shāh. Its importance has decreased owing to its distance from the railway. The houses are chiefly built of mud, and none of the mosques and temples is of special interest. The Government offices stand on the site of an old fort, and the town also contains a dispensary and a branch of the American Methodist Mission. The town is administered under Act XX of 1856, with an income of about Rs. 2,500. Trade is only local. The *tahsīlī* school has about 211 pupils.

Jalālābād Town (3).—Town in the Kairāna tahsil of Muzaffarnagar District, United Provinces, situated in 29° 37′ N. and 77° 27′ E., 21 miles from Muzaffarnagar town. Population (1901), 6,822. It is said to have been founded by a Pathān named Jalāl Khān in the reign of Aurangzeb. A mile away lie the ruins of the celebrated fort Ghausgarh, built by the Rohilla leader, Najīb Khān, with a beautiful mosque which was built by his son, Zābita Khān. Jalālābād was often sacked by the Marāthās during the rule of Zābita Khān, and a Marāthā still holds a small grant close by. During the Mutmy the Pathāns of this place remained quiet, and one of their leaders did good service as tahsīldār of Thana Bhawan after its capture. The town is administered under Act XX of 1856, with an income of about Rs. 2,300. There are two schools, with more than 100 pupils.

Jalāli. Town in the District and tahsil of Aligarh, United Provinces, situated in 27° 52' N. and 78° 16' E., 11 miles south-east of Aligarh town. Population (1901), 8,830. The chief inhabitants are the Saiyids, Shiahs by sect. They are descendants of one Kamāl-uddin, who settled here about A.D. 1295. This Saiyid family subsequently expelled the old Pathān landholders, and obtained full proprietary rights in the town, which they still possess. The family has supplied

many useful subordinate officers to the British Government. The town contains a considerable number of *imāmbāras*, one of which is a handsome building. Jalālī is administered under Act XX of 1856, with an income of about Rs. 1,700. There is a primary school with 60 pupils, and the Muhammadans maintain several schools for reading the Korān. The place has little trade.

Talalnur Taluka.—Central taluka of Surat District, Bombay, lying between 20° 45' and 21° 0' N. and 72° 47' and 73° 8' E., with an area of 188 square miles. The population in 1901 was \$1.182, compared with 78.640 in 1801, the average density being 432 persons per square mile. The tāluka contains or villages, Jalālpur being the head-quarters. Land revenue and cesses in 1903-4 amounted to over 1.6 lakhs. Talalpur is a level plain of deep alluvial soil, sloping towards the sea, where it ends in a salt marsh. Along the coast-line low sandhills appear at intervals. With the exception of the salt lands near the coast, the country is rich, highly cultivated, and well supplied with water, groves of fruit trees, and valuable timber. The villages are large and prosperous. Besides the tract on the coast, there are extensive salt marshes along the banks of the Purna and Ambika rivers. The reclaimed land has been made to yield a small return of rice. Jowar, bajra, and rice are the staple crops. Miscellaneous crops are pulses, gram, oilseeds, sugar-cane, and plantains. The climate is mild and healthy throughout the year.

Jalaipur Town (1).—Town in the District and tahsil of Gujrāt, Punjab, situated in 32° 38' N. and 74° 12' E., 8 miles north-east of Gujrāt town. Population (1901), 10,640. Lying at the junction of the roads connecting Siālkot, Jhelum, Jammu, and Gujrāt, it is a mart of some importance; but its only local industry is the manufacture of shawls, carried on by a colony of Kashmīris who settled here after the famine of 1833. The municipality was created in 1867. The income during the ten years ending 1902–3 averaged Rs. 9,300, and the expenditure Rs. 8,900. In 1903–4 the income was Rs. 8,900, chiefly derived from octroi; and the expenditure was Rs. 10,700. The town possesses two Anglovernacular middle schools, and two dispensaries, one maintained by Government and the other by the Scottish Mission.

Jalalpur Village (2).—Ancient site in the Pind Dadan Khan tahsil of Jhelum District, Punjab, situated in 32° 39′ N. and 73° 28′ E., on the right bank of the Jhelum river. Population (1901), 3,161. The village was identified by Sir Alexander Cunningham with the site of the ancient Bucephala, built by Alexander the Great in memory of his famous charger, which was killed in the battle with Porus at the crossing of the Jhelum; but doubts have been cast on the identification. Remains of ancient walls still crown the summit of the hills, which rise to a height of 1,000 feet above the village. Coins found among the

ruins date back to the period of the Graeco-Bactrian kings. Even in the time of Akbar, the town covered a site four times as large as that which it now occupies; but since the foundation of Pind Dādan Khān, and the shifting of the river channel 2 miles eastward, it has undergone a constant decay. Jalālpur is now nothing more than a small agricultural village, of no importance apart from the interest attaching to its antiquarian remains.

Ialalpur Town (3) (or Jalalpur Pīrwāla).—Town in the Shujābād tahst/of Multan District. Puniab, situated in 20° 32' N, and 71° 14' E., on the hanks of an old bed of the Beas called the Bhatari. Population (1901). 5.140. It is called Pīrwāla after Saivid Sultān Ahmad Kattāl, generaliv known as Pir Kattal, a Muhammadan saint, pilgrim, and missionary, and descendant of Saivid Ialal of Uch, who died here in 1641. A fine domed building, covered with blue glazed tiles, built in 1745, marks his tomb; and at the large fairs held here on every Friday in the month of Chait (March-April), evil spirits are exorcised from Muhammadan women by day and from Hindu women by night. The municipality was created in 1873. The income during the ten years ending 1902-3 averaged Rs. 5.000, and the expenditure Rs. 5.200. The income in 1903-4 was Rs. 4,600, chiefly from octroi; and the expenditure was Rs. 5.200. The town has a dispensary, and a vernacular middle school maintained by the municipality. Its trade has greatly decayed since the opening of the railway.

Jalalpur Town (4).—Town in the Akbarpur tahsil of Fyzabād District, United Provinces, situated in 26° 19' N. and 82' 45' E. Population (1301), 7,265. The town is picturesquely placed on the high bank of the Tons (Eastern), which winds in a deep channel through a fertile and well-wooded landscape. An imambara outside the town was built in the eighteenth century at a cost of Rs. 4,000 by contribution from the weavers, each man contributing a quarter of a piece for each piece of cloth woven by him. Jalalpur is administered under Act XX of 1856, with an income of about Rs. 1,500. There is still a flourishing manufacture of cotton cloth, but many of the Julahās (Muhammadan weavers) go to Bombay, Calcutta, and Cawnpore to work in the mills. A school has 235 pupils.

Jalandhar.—Division, District, tahsil, and town in the Punjab. See Jullundur.

Jalangi (or Khariā).—One of the three rivers of Nadiā District, Bengal, known as the Nadiā Rivers, the other two being the Bhācārathi and the Mātābhānga. The Jalangi leaves the Ganges, at the point where it enters Nadiā District in 24° 11′N. and 88° 43′ E., and meanders along the north-west of the District for 50 miles, separating it from Murshidābād. It then flows to the south past Krishnagar, the chief town of the District, whence it turns westward.

and after a total course of 121 miles meets the Bhagtrathi at Nadia town in 23° 25' N, and 88° 24' E., the united stream taking the name of the Hooghty. The Jalangi, which was at one time the principal outlet for the Ganges, has, like the other head-waters of the Hooghly. a tendency to silt up, and 36 miles of the upper Jalangi have in fact almost entirely closed. It now derives its main water-supply from the Ganges through the old channel of the upper BHAIRAR, and with it forms part of the NADIA RIVERS system. Considerable difficulties have been experienced in keeping the channel open for navigation. The Jalangi is navigable during the rainy season by country boats of A tons burden, but in the hot season it is little more than a string of marshes connected by shoals and is fordable at many points. Navigation is always a matter of great difficulty at this time, and is in most years impossible. The principal marts on its banks are KRISH-NAGAR, Karimpur, Chapra, and Swarupgani; their trade is chiefly in grain, oilseeds, and molasses.

Jālāpahār.—Hill in the head-quarters subdivision of Darjeeling District, Bengal, situated in 27° 1′ N. and 88° 16′ E., above the station of Darjeeling. Jālāpahār, which forms part of Darjeeling cantonment, is a convalescent dépôt garrisoned by a company of the British infantry regiment quartered at Lebong. Barracks were built at Jālāpahār as far back as 1848, but these have been enlarged and now provide accommodation for 400 men. The parade ground is 7,520 feet above sea-level.

Jalarpet.—Village in the Tiruppattür tõluk of Salem District, Madras, situated in 12° 35' N. and 78° 34' E. Population (1901), 2,051. It is of importance owing to its railway station, which is the junction of the south-west line of the Madras Railway with the Bangalore branch. Of late years it has also been the station at which passengers proceeding towards Madras have been examined to make sure that they are free from plague. Distance from Madras 132 miles, from Bangalore 87 miles.

Jālaun District.—District in the Allahābād Division of the United Provinces, lying between 25° 46′ and 26° 27′ N. and 78° 56′ and 79° 52′ E., with an area of 1,480 square miles. Jālaun is the most northern of the Districts of British Bundelkhand, and is roughly triangular in shape, the boundaries being chiefly formed by the Jumna and its tributaries, the Betwā and Pahūj. On the north and north-east the Jumna divides it from Etāwah and Cawnpore; on the south-east its greatly indented boundary marches with that of the Baonī State; on the south the Betwā separates Jālaun from Jhānsi and Hamīrpur, and the Samthar State forms part of the boundary; on the west the Pahūj generally runs between Jālaun and the State of Gwalior, except where a portion of the Datiā State enters the former like a wedge.

Physical aspects.

Physical while the lowlands occupy the central part and are chiefly drained by two separate channels which unite as they approach the Jumna, the combined stream being called the Non. An important feature of these channels, and still more so of the larger rivers, is the intricate reticulation of deep ravines which fringe them, including about one-fifth of the total area of the District. The course of the Jumna is from north-west to south-east, while the Pahūj runs from south to north and the Betwā from west to east. The junction of the Pahūj with the Jumna is on the northern frontier.

Jalaun consists almost entirely of alluvium. Kankar or nodular limestone is the chief mineral found; but stone and gravel are obtained near Saidnagar.

The District presents no peculiarities from a botanical point of view. It is very sparsely wooded, especially in the black-soil tracts in the south. Babūl (Acacia arabica) is found everywhere in waste land, while khair (Acacia Catechu) grows in the ravines. Plantations of babūl under the management of the Forest department are being undertaken near Kālpī to supply the Cawnpore tanneries. Kāns grass (Saccharum spontaneum) is a great pest, recurring in cycles.

Tigers are hardly ever met with, but wild hog, antelope, leopards, and hyenas are numerous. The poorer classes residing on the banks of the three principal rivers use fish as an article of diet to a considerable extent.

The climate is hot and dry, but not unhealthy. The average monthly temperature ranges from about 65° in January to 96.5° in May. The annual rainfall over the whole District averages 32 inches, and there is little difference between the amounts received in different portions. Great variations occur, however, from year to year. In 1868-9 the fall was only 13 inches, while it was as much as 51 inches in 1894-5.

No details are known of the ancient history of this tract, which was not a political entity till the eighteenth century. The town of Kalpi

was conquered by Kutb-ud-dīn in 1196. Owing to its importance as guarding a main crossing of the Jumna, it was held by a strong garrison and became a starting-point for expeditions into Central India and the Deccan, and later a fortress on the route from Agra to Bengal. In the long struggle between the kings of Delhi and Jaunpur during the first eighty years of the fifteenth century Kālpī was the scene of fierce battles and sieges. The Hindu confederacy against Bābar met here, and advanced to experience a crushing defeat near Fatehpur Sīkri in Agra District. During the next thirty years Kālpī was taken and retaken several times, and under

Akhar it became the head-quarters of a sarkar. The Bundelas had for a short time held Kalpi in the fourteenth century, and towards the end of Akhar's reign assumed a threatening attitude. Bir Singh Deo, Raja of Orchha, occupied the greater part of Ialaun District and was confirmed in his possessions by Jahangir. He revolted when Shah Jahan came to the throne, and after a long struggle lost all his influence in this tract. Another branch of the Bundelas which had gradually acquired power in Hamīrpur District now became prominent, and Chhatarsal, its great leader, included Ialaun in his dominions. Early in the eighteenth century, however, when attacked by the governor of Allahābād, he called in the Marāthās to aid him. At his death about 1734 he bequeathed one-third of his possessions, including this District, to his allies. Under Marāthā rule the country was a prey to constant anarchy and intestine strife. In the wars which took place at the close of the eighteenth century Kalpi was taken by the British in 1708, but subsequently abandoned. Part of the District was ceded by the Peshwa in 1803 for the maintenance of troops, by a treaty modifying the terms of the Treaty of Bassein a year earlier; but the fort of Kālpī was held by Gobind Rao on behalf of Shamsher Bahādur (see BANDA DISTRICT) and was taken after a short siege. A tract near the lumna was assigned to Himmat Bahadur, who had aided the British, and in 1806 Gobind Rao submitted and was restored to his possessions. Portions of the present District in the Kalpi and Kunch tahsils were included in the British District of Bundelkhand. The Ialaun estate was seriously misgoverned, and in 1818 the British Government assumed its management. It lapsed in 1840, and during the next few years additions were made by conquest, by treaties with the Rājās of Ihansi and Gwalior, and by lapse. In 1853 the southern portion of the present Hamīrpur District, which had been administered by the Deputy-Superintendent of Ialaun, was transferred to Hamirpur, and Künch and Kälpi were attached to Jälaun. In 1854 and 1856 further transfers were made to Ihansi District, and Jalaun assumed its present form subject to a further transfer to Sindhia in 1861.

News of the rising at Cawnpore reached Orai early in June, and shortly afterwards intelligence arrived that the Europeans at Jhānsi had been massacred. Thereupon the men of the 53rd Native Infantry deserted; and on June 15 the Jhānsi mutineers reached the District and murdered all the Europeans on whom they could lay their hands. Meanwhile Kesho Rao, chief of Gursarai, assumed supreme authority. He kept a few European officers as prisoners for some months, until after the defeat of the infamous Nāna Sāhib and his flight from Cawnpore; but those events induced him to change his tone and to treat with Colonel Neill for their restoration. After sending them in safety to Cawnpore, the chief established himself for a time at Jālaun; but

upon the arrival of Tantia Toni in October the usual anarchic quarrels arose. Kesho Rao was deposed; his son was seized by the rebels: and the mutineers of Jalaun, joining those of Gwalior, set out for Campore. Meanwhile the nonulace everywhere revelled in the licence of plunder and murder which the Mutinv had spread through Bundel-In May, 1858, after the fall of Ihansi, Sir Hugh Rose's force entered the District and routed the rebels at Kunch. some troops of the Gursarai chief, whose allegiance had returned with the advent of the British forces. A Deputy-Commissioner was put in charge of the District at Künch, and Sir Hugh Rose advanced to attack the strong rebel position at Kāloi. On May 22 he drove them from that post and shortly afterwards marched in pursuit towards Gwalior. Unfortunately he was unable to leave any troops in garrison, except a small body to guard the passage at Kālpī; and accordingly on his withdrawal the western portion of the District relansed once more into anarchy. Plundering went on as before; and in July and August the rebels again attacked and pillaged Künch and Jalaun. The latter town was immediately recovered by a detachment from the garrison at Kāloi : but it was not till September that the guerrilla leaders were defeated, and some further time elapsed before the work of reorganization could be effected.

Jālaun was treated as 'non-regulation' up to 1891, when it was made subject to the ordinary laws in force in the United Provinces, some of which had already been introduced.

The District is not rich in antiquities. A few carved pillars and stones which may possibly be of the Chandel period have been found at Orai. The great battle in which Prithwi Rāj of Delhi defeated Parmāl, the last great Chandel ruler of Bundelkhand, is said to have taken place at a village called Akorī in the Orai taksīl. Kālnī, the most celebrated historical place in the District, contains a number of Muhammadan tombs.

There are 6 towns and 837 villages in Jālaun. Population shows considerable fluctuations, owing to the vicissitudes of season to which

Population. all Bundelkhand is liable. The numbers at the last four enumerations were as follows: (1872) 404,447, (1881) 418,142, (1891) 399,361, and (1901) 399,726. There are four tahsils—Orai, Kālpī, Jālaun, and Kūnch—each named from its head-quarters. The principal towns are the municipalities of Kūnch, Kālpī, and Orai, the District head-quarters. The table on the next page gives the chief statistics of population in 1901.

Hindus form nearly 94 per cent. of the total population, and Musal-mans only 6 per cent. The density of population is considerably higher than in the other Bundelkhand Districts, owing to the absence of the rocky hills and jungle wastes which characterize the latter.

Jālaun was the only Bundelkhand District in which the population did not decrease between 1891 and 1901, and this result may safely be ascribed to the Betwa Canal. Practically the whole population speaks Western Hindī, the prevailing dialect being Bundeli.

| Tahsil. | Ares in square miles. | Number of | Population. | Population per square mife. | Percentage of variation in population be- tween 1891 and 1901. | Number of persons able to read and write. |
|----------------------|--------------------------|--|--|--------------------------------|--|--|
| Orai | 311 407 424 338 | 2 105 1 154 2 381 1 197 | 59,065 75,692 160,381 104,588 | 190 186 378 309 | - 12·7 - 3·9 + 9·0 + 1·7 | 3,445 2,674 6,959 4,451 |
| District total 1,486 | | 6 837 | 399,726 | 270 | + 0.4 | 17,529 |

Chamārs (leather-workers and cultivators), 68,000, are the most numerous Hindu caste. Other large castes are Brāhmans, 50,000; Rājputs, 35,000; Kāchhīs (cultivators), 27,000; Korīs (weavers), 20,000; and Ahīrs (graziers), 19,000. The Basors (5,000) and Khangārs (6,000) are menial classes peculiar to this part of Bundelkhand. Among Musalmāns, there are 11,000 Shaikhs and 6,000 Pathāns, but many of these are descended from converted Hindus. Agriculture supports 61 per cent. of the total population, and general labour 10 per cent. Rājputs, Kurmīs, and Brāhmans are the chief land-holders.

There were 59 native Christians in 1901, but no missions have permanent stations in the District.

The southern portion of Jālaun forms a rich basin of the black soils of Bundelkhand (riār and kābar), in which excellent wheat can be grown in favourable seasons without irrigation. Unfortunately it becomes overgrown, when cultivation is relaxed, by the weed called kāns, which spreads rapidly and finally stops the plough. Towards the north the soil is brown or yellow, called parviā; this resembles the loam of the Doāb and requires irrigation. Near the ravines which border the rivers, the soil is denuded of its more valuable constituents and becomes exceedingly poor; but there is valuable grazing near the Jumna and Betwā, and ghī is made by the Ahīrs who graze large herds of cattle there. Field embankments are also made, which prevent erosion and, by holding up water, stop the growth of kāns and retain moisture.

The ordinary tenures of the United Provinces are found, zamindāri and pattīdāri mahāls being the commonest. A few estates are held on the ubārī tenure, which implies a reduction of the full revenue demand on varying conditions (see Jhānsi District). The main agricultural statistics for 1899-1901 are given on the next page, in square miles.

¹ Later figures are not available owing to settlement operations.

| | Tahsil. | | thsil. Total. Cultivated. | | Cultivated, | Irrigated. | Cuitivable waste. |
|------------------------------------|---------|---|---------------------------|--------------------------------------|--------------------------|--------------------|-----------------------|
| Orai . Kālpī Jālaun Künch | : | : | | 311 407 424 33 ⁸ | 134 158 275 234 | 2 9 25 11 | 80 114 73 41 |
| | | 7 | otal | 1,480 | 801 | 47 | 308 |

The principal food-crops are gram, jowar, and wheat, which covered 333, 123, and 103 square miles respectively. Arhar (81 square miles), hājra (69), and barley (15) are less important. Oilseeds (48 square miles) and cotton (59) are the chief non-food crops; but hemp (san) and poppy are also grown to a small extent.

Jālaun, like the rest of Bundelkhand, is liable to great fluctuations in agricultural prosperity. If the spring harvest is injured, whether by blight or by excess or deficiency of rain, cultivation relaxes, or wheat is replaced by inferior staples, and kāns spreads rapidly, throwing land out of cultivation. No material improvements have been made in agricultural methods, though many years ago it was attempted to introduce American varieties of cotton near Kālpī. Endeavours are now being made to encourage rice cultivation, and an experimental farm is under consideration. Part of the District has been rendered more secure by canal-irrigation, which will be referred to later. Advances under the Land Improvement and Agriculturists' Loans Acts are freely taken, especially in bad years. A total of 5 lakhs was advanced during the ten years ending 1900, including 3 lakhs in the two famine years 1895-7; and Rs. 16,000 was lent between 1900 and 1904.

The cattle of Jālaun are inferior to those found south of the Betwā. Attempts have been made to introduce better strains, but hitherto without success. No horses are bred, and the ponies, sheep, and goats are all of an ordinary type.

Up to 1886 the District had no sources of irrigation except wells; and owing to the peculiarities of the black soils, mār and kābar, and the great depth of the spring-level the area irrigated was small. The opening of the Betwā Canal has led to a considerable increase in the irrigated area. This work enters the District in the south-west and has two branches, which supply almost every part of the District. Though the cultivators did not at first take water readily, the famine of 1896-7 opened their eyes to the value of the canal. In that year the area irrigated, which had been only 12 square miles in 1894-5, rose to 128 square miles. Water is now freely taken for parwa, or loam; and the area of black soil irrigated, especially kābar, is increasing steadily. The area irrigated in 1899-1901 from canals was 38, and from wells 9 square miles. At present the irrigation is almost entirely confined to

F.4MINE

23

the spring crops, as the supply is exhausted by the beginning of the hot season; but a second reservoir is being constructed to increase the supply.

Kankar or calcareous limestone and saltpetre are the only mineral products.

Jālaun was formerly noted for the production of cotton cloth; but the competition of machine-made cloth from Cawnpore has materially affected the industry, and the cultivation of āl (Morinda citrifolia), from which a valuable red dye was made, has ceased since the introduction of aniline colours. Cotton-dyeing and printing still survive on a small scale at Saidnagar and Kotra. There are two small cotton-gins at Kālpī and a larger one at Ait, while another has recently been completed at Kūnch.

The principal exports are gram, oilseeds, cotton, and ghi. The bark of the babūl is now being sent in increasing quantities to Cawnpore for use in tanning, and a plantation is being made near Kālpī. The gram is sent to Southern and Western India, oilseeds to Bombay, cotton to Cawnpore and Bombay, and ghī to Bengal. Kūnch, Kālpī, Jālaun, Rāmpura, and Mādhogarh are the chief trade centres.

The south of the District is crossed by the Indian Midland section of the Great Indian Peninsula Railway from Jhānsi to Cawnpore, and a short branch connects Ait with Kūnch. There are 669 miles of roads, of which 130 are metalled. The latter are in charge of the Public Works department, but the cost of all but 45 miles of metalled roads is met from Local funds. Avenues of trees are maintained on 109 miles. The main lines are the roads from Cawnpore and Saugor, and from Orai to Kūnch, Jālaun, and Mādhogarh.

Drought and blight are the two great scourges of Jalaun, and famine and scarcity occurred in 1782, in 1833, in 1837, and in 1848. The rams of 1868 failed and the autumn harvest was only Famine. about one-third of the normal, while the following spring harvest, which benefited by an opportune fall in September, 1868, gave rather more than half an average crop. There was great distress, especially in the remote southern villages, until the monsoon of 1860. and relief was given and works were opened. A still worse calamity was experienced in the years 1805-7. Previous seasons had injured the crops and kans had spread considerably. The rains of 1895 ceased prematurely, and relief was necessary early in 1896. By May the numbers on relief rose above 40,000, but the approach of the rains sent the people back to their villages. The monsoon of 1896, however, was even weaker than that of the previous year, and relief operations were again required. By April, 1897, there were 127,000 persons in receipt of relief, and before the next harvest nearly 35 per cent. of the

total population had been relieved. Between October, 1896, and the same month in 1897 nearly 12 lakhs was spent by Government.

The Collector is assisted by three Deputy-Collectors recruited in India, and a tahsildar is stationed at the head-quarters of each tahsil.

There is one regular Munsif. Jalaun lies in the jurisdiction of the Civil Judge and Sub-Judge of Jhānsi, and also in the Jhānsi Sessions division. A Special Judge is at present carrying out inquiries under the Bundelkhand Encumbered Estates Act. Crime is on the whole light, but outbreaks of dacoities occur not infrequently, and the difficulty in breaking up gangs is increased by the proximity of Native States.

The District includes three large estates, Rampura, Jagamanpur, and Gonalbura, for which no detailed statistics are available, the total area of the three being about 85 square miles. A fixed revenue of Rs. 4,500 is paid for Jagamanpur, and the other two are held revenue free. For the first time since its existence in its present form, the settlement of the whole of Ialaun District is now being revised simultaneously. Portions of the Kunch and Kalpi lahsils were first settled as part of the Bundelkhand District and afterwards of Hamirpur, the first regular settlement being made in 1810-1. This was revised in the usual manner in 1872, the term being fixed for thirty years. The remainder of the District was assessed summarily for short terms from 1830 to 1863. The first regular settlement, which should have commenced earlier, but was postponed by the Mutmy, was carried out between 1860 and 1863, and was confirmed for a period of twenty years. It was revised between 1885 and 1887, and the operations are noteworthy as being the first in the United Provinces in which the rules directed that rent rolls should form the chief basis of assessment, At that time the revenue of the portions settled in 1872 was 2.9 lakhs. The revenue on the rest of the District was enhanced from 6.3 to 7.5 lakhs, the demand falling at 47 per cent, of the corrected rental. A series of bad seasons followed, and in 1893 reductions were made. The lamine of 1895-7 necessitated further reductions of revenue, and in 1903 4 the demand stood at 9-8 lakhs. The whole District has now been brought under the special system of settlement in force in Bundelkhand, by which revenue is liable to revision every five years.

Collections on account of land revenue and total revenue have been, in thousands of rupees.—

| | 1880-1. | 1890-r. | 1900-1. | 1903-4. |
|----------------------------|---------|----------------|---------------|--------------|
| Land revenue Total revenue | 9,10 | 10,35 13,58 | 9,39 12,28 | 8,02 9,01 |

There are three municipalities, and two towns are administered under Act XX of 1856. Beyond the limits of these, local affairs are managed by the District board, which had an income in 1903-4 of Rs. 87,000, half of which was derived from rates. The expenditure was Rs. 88,000, including Rs. 50,000 spent on roads and buildings.

The District Superintendent of police has a force of 3 inspectors, 83 subordinate officers, and 360 constables, distributed in 17 police stations, besides 100 municipal and town police, and 1,200 rural and road police. A special force is maintained along the frontier of the Native States as a guard against dacoits. The District jail contained a daily average of 157 prisoners in 1903.

Jālaun takes a high place as regards the literacy of its inhabitants, of whom 4-4 (8-4 males and 0-1 females) could read and write in 1901. The total number of public schools rose from 102 with 2,530 pupils in 1880-1 to 112 with 3,944 pupils in 1900-1. In 1903-4 there were 140 such institutions with 5,184 pupils, including 271 girls, besides 58 private schools with 890 pupils. The education imparted is almost entirely primary, and only six schools were classed as secondary. No schools are managed by Government, but 92 are managed by the District and municipal boards. Out of a total expenditure on education of Rs. 26,000, Local funds provided Rs. 22,000 and fees Rs. 4,000.

There are 7 hospitals and dispensaries, with accommodation for 73 in-patients. About 55,000 cases were treated in 1903, including 895 in-patients, and 2,000 operations were performed. The total expenditure was Rs. 13,000, chiefly met from Local funds.

In 1903-4, 15,000 persons were successfully vaccinated, representing a proportion of 37 per 1,000 of population. Vaccination is compulsory only in the municipalities.

[District Gasetteer, 1874 (under revision); Settlement Reports by l'. J. White, Kunch, 1874; Kālpī, 1875; remaining portion of District, 1889.]

Jālaun Tahsīl.—Northern tahsīl of Jālaun District, United Provinces, comprising the pargana of Jālaun and part of Mādhogarh, and lying between 26° and 26° 27' N. and 79° 3' and 79° 31' E., with an area of 424 square miles. Population increased from 147,090 in 1891 to 160,381 in 1901, the rate of increase being the highest in the District. There are 381 villages and two towns, including Jālaun (population, 8,573), the tahsīl head-quarters. The demand for land revenue in 1903-4 was Rs. 3,16,000, and for cesses Rs. 51,000. The density of population, 378 persons per square mile, is the highest in the District. The tahsīl is bordered on the west by the Pahūj and on the north by the Jumna, both of these rivers having a fringe of ravines. In the south and east the rich black soil called mār is found;

but this tract has suffered recently from bad seasons. North of the mār is a tract of kābar, or lighter-coloured soil, which largely depends on rain at particular seasons for its cultivation. The north, west, and north-east of the tahsil consists of a loam tract, which is served by the Kuthaund branch of the Betwa Canal, and is one of the most stable portions of this very precarious District. In 1900-1 the area under cultivation was 275 square miles, of which 25 were irrigated.

Jālaun Town.— Head-quarters of the taksīl of the same name in Jālaun District, United Provinces, situated in 26° 8' N. and 79° 21' E., on a metalled road 13 miles from Orai, the District head-quarters. Population (1901), 8,573. During the eighteenth century Jālaun was the capital of a Marāthā State, and nearly all the respectable inhabitants are still Marāthā Brāhmans, many of whom enjoy pensions and rent-free grants. Besides the taksīli offices, the town contains a dispensary and a taksīli school with 144 pupils. It is administered under Act XX of 1856, with an income of about Rs. 1,300. Trade is small, but increasing. A fine market was built in 1881, and a number of Mārwārī bankers are settled here.

Jalesar Tahsil .-- South-western tahsil of Etah District, United Provinces, conterminous with the pargana of the same name, lying between 27" 18' and 27" 35' N. and 78° 11' and 78° 31' E., with an area of 227 square miles. Population increased from 121,030 in 1891 to 133,300 in 1001. There are 156 villages and two towns, including JALESAR (population, 14,348), the taksil head-quarters. The demand for land revenue in 1903-4 was Rs. 2,76,000, and for cesses Rs. 45,000; but under the new settlement these figures will be raised to ks. 2,88,000 and Rs. 47,000. The density of population, 588 persons per square mile, is the highest in the District. The tahsil forms an almost unbroken plain. The Rind or Armd touches the north-east corner; but the chief river is the Sengar, known in this part of its course also as the Isan. Irrigation is provided by means of the Etāwah branch of the Upper Ganges Canal. The tahsil is generally fertile, but is crossed by a line of sandhills, and is interspersed with patches of barren soil or usar and marshes. The drainage has recently been improved. In 1898-9 the area under cultivation was 148 square miles, of which 87 were irrigated. The canal serves more than a third of the irrigated area, and wells supply most of the remainder. In dry seasons the Sengar or Isan is largely used as a source of irrigation.

Jalesar Town.— Head-quarters of the tahsil of the same name in Etah District, United Provinces, situated in 27° 28' N. and 78° 19' E., on the road from Muttra to Etah town, 8½ miles from Jalesar Road station on the East Indian Railway. Population (1901), 14,348. The town consists of two parts, the fort and the lower town. The fort is said to have been erected by a Rānā of Mewār in the fifteenth century;

but nothing remains of the buildings except a mound on which the tahsili, munsifi, police station, and municipal hall now stand. The lower town is a collection of narrow streets and lanes, the drainage of which was very defective, but the municipality has completed an efficient drainage scheme, through the Canal department. The streets are well paved and there is a dispensary. Jalesar has been a municipality since 1866. During the ten years ending 1901 the income and expenditure averaged Rs. 10,000. In 1903-4 the income was Rs. 14,000, chiefly from octroi (Rs. 11,000); and the expenditure was Rs. 13,000. There is not much trade; but cotton cloth, glass bangles, and pewter ornaments are made, and the largest saltpetre factory in the District is situated here. The Rājā of Awa has opened a cotton-gin, which employed 125 hands in 1903. A tahsili school has about 130 pupils, and the municipality maintains two schools and aids six others with a total attendance of 331.

Jaleswar (or Jellasore).—Village in the head-quarters subdivision of Balasore District, Bengal, situated in 21° 49′ N. and 87° 13′ E., on the left bank of the Subarnarekhā, 12 miles from its mouth. It lies on the Calcutta high road, and is also a station (Jellasore) on the Bengal-Nāgpur Railway. It was formerly the capital of a Muhammadan sarkār comprising the present District of Midnapore. During the eighteenth century the East India Company had a factory here.

Jālgaon Tāluk.— Tāluk of Buldāna District, Rerār, lying between 20° 65' and 21° 13' N. and 76° 23' and 76° 48' E., with an area of 410 square miles. The population fell from 97,798 in 1891 to 87,192 in 1901, the density in the latter year being 212 persons per square mile. The tāluk contains 155 villages and one town, Jālgaon (population, 8,487), the head-quarters. The demand for land revenue in 1903-4 was Rs. 3,54,000, and for cesses Rs. 28,000. Jālgaon, which is the smallest tāluk in Berār in respect of area and, except the Melghāt, of population also, lies entirely in the fertile valley of the Purna, which bounds it on the south. On the north it is bounded by the low hills of the western portion of the Gāwilgarh range. Until August, 1905, when it was transferred to Buldāna, the tāluk formed part of Akola District.

Jālgaon Town (1).—Head-quarters of the tāluk of the same name in Buldāna District, Berār, situated in 21° 3′ N and 76° 35′ E. Population (1901), 8,487. The town is sometimes called Jālgaon-Jāmod from a village near it, to distinguish it from Jālgaon in Khāndesh. It is mentioned in the Ain-i-Akbarī as a pargana town in the sarkār of Narnāla. It contains five ginning factories and a cotton market.

Jälgaon Täluka.— Täluka of East Khändesh District, Bombay, lying between 20° 47′ and 21° 11′ N. and 75° 24′ and 75° 45′ E., with an area of 319 square miles. There are two towns, Jälgaon

(population, 16,259), the head-quarters, and NASIRĀBĀD (12,176); and 89 villages. The population in 1901 was 85,151, compared with 83,982 in 1871. The density, 269 persons to the square mile, is much above the District average. The demand for land revenue in 1903-4 was 2-8 lakhs, and for cesses Rs. 18,000. Jālgaon is a rich black plain to the north, and hilly or undulating to the south. The climate is generally healthy.

Jalgaon Town (2).—Head-quarters of East Khandesh District, Bombay, and of the taluka of the same name, situated in 21° 1' N. and 75° 35' E., on the Great Indian Peninsula Railway, 261 miles northeast of Bombay. Population (1901), 16,250. Situated in the centre of a rich cotton-growing District. Ialgaon rose in the nineteenth century to the position of an important mercantile town. During the American Civil War (1862-5) it was the great cotton mart of Khandesh. suffered severely from the fall in value at the close of the war, but its trade has recovered. The chief articles of commerce are cotton, linseed, and sesamum. In 1903 there were 6 cotton-presses, 2 large cotton-ginning factories, and one cotton-spinning and weaving mill. all worked by steam. In the same year the number of looms was 425 and of spindles 20.048, while the out-turn amounted to 2 million pounds of yarn and 11 million pounds of cloth. The town has been greatly improved. A new suburb, Pollen-peth, has been built, and a market-place laid out. The municipality has made a garden on the site of part of the old cotton market. One of the most striking of many handsome buildings in the new suburb is a three-storeved dwelling built by the patel or headman of Patri. Water is carried through iron pipes from the Mehrun lake, 2 miles distant. A metalled road connects Jalgaon and Neri, 14 miles distant, 24 miles beyond which are the celebrated Ajanta caves. The municipality was created in 1864. The municipal income during the decade ending 1901 averaged Rs. 37,000. In 1903-4 the income was Rs. 41,000. The town contains a Subordinate Judge's court, a dispensary, and six schools, with 574 pupils, of which one, with 63 pupils, is for girls. A branch of the American Alliance Mission has recently been established here.

Jālia Amarāji.—Petty State in Kāthiāwar, Bombay. Jālia Devāni.—Petty State in Kathiawar, Bombay.

Jālia Mānaji.-Petty State in Kātutāwār, Hombay.

Jālna Hills.—Range of hills in Hyderābād State, running eastward from Daulatābād in Aurangābād District. Close to the border of Berār it is joined by a spur of hills from Jālna in the south, from which the range derives its name. After entering Berār it merges into the Sahyādriparvat or Sātmālā range. The Jālna Hills are about 2,400 feet high, one of the peaks, Daulatābād, being 3,022 feet

JĀLOR

20

above the level of the sea. The total length of the range is about

Jaina, Taluk.—Eastern tāluk of Aurangābād District, Hyderābād State, with an area of 801 square miles. Its population in 1901, including jāgīrs, was 113,400, compared with 129,832 in 1891, the decrease being due to the famines of 1897 and 1890-1900. The tāluk contains two towns, Jālna (population, 20,270), the head-quarters, and Kādirābād (11,159), a large commercial centre; and 219 villages, of which 52 are jāgīr. The land revenue in 1901 was 2.5 lakhs. The country is composed of black cotton soil, and is hilly towards the north and east.

Talna Town.—Head-quarters of the taluk of the same name in Aurangābād District, Hyderābād State, situated in 19° 51' N. and 75° 54' E., on the right bank of the Kundlika, opposite the town of Kādirābād. Population (1901), 20,270, of whom 13,851 were Hindus. 5.812 Musalmans, and 217 Christians. According to local traditions. Iālna was founded in the time of Rāma. During Sītā's residence it was styled Jankapur, but the name was changed to Jalna by a rich Musalman weaver. Abul Fazl, Akbar's minister, resided here for a time, and Aurangzeb is said to have visited the place occasionally during his vicerovalty. The only public buildings of any note are a mosque and a handsome stone sarai, erected according to the inscriptions on them in 1568, and a Turkish bath. The town also contains a number of less important mosques and shrines, besides three Hindu temples, the principal one being that of Anandi Swāmi. which is of considerable size. The fort of Jalna, which was built in 1725, is now in ruins. Its gardens produce large quantities of fruit. which is exported to Bombay and elsewhere. The cantonment of Jalna, till recently a station of the Hyderabad Contingent, lies to the east of the town; it was built in 1827, but has been abandoned There are several places of Christian worship, with a since 1003. couple of schools attached.

Jālor.—Head-quarters of a district of the same name in the State of Jodhpur, Rājputāna, situated in 25° 21' N. and 72° 37' E., 75 miles south of Jodhpur city. Population (1901), 7,443. It possesses a post office, an Anglo-vernacular school, and a hospital with accommodation for 8 in-patients. The principal manufactures are cotton cloth, camel saddles, and prettily engraved drinking vessels of bell-metal. On a hill to the south and entirely commanding the town stands the fort, one of the most famous in Rājputāna. Built by the Paramāra Rājputs, its walls, composed of huge masses of cut stone, remain even now in a perfect state of preservation, although the place has been many times besieged. The fort is about 800 by 400 yards in extent, and accessible only by an ascent of 3 miles up a steep and

IAI.OR

slippery stone roadway, passing three distinct lines of defence, all of considerable strength. Jālor was held by the Paramāras till towards the end of the twelfth century, when the Chauhān Rao Kirthi Pāl (of Nādol) took it and made it his capital. His grandson Udai Singh surrendered it to Shams-ud-dīn Altamsh about 1210, but it was immediately restored to him. About 100 years later, Alā-ud-dīn, after a lengthy siege, captured it from Kānardeo Chauhān, and a three-domed mosque, said to have been built by him, is still in good repair and daily use. About 1540 the fort and district passed into the possession of Rājā Māldeo of Jodhpur.

Jalpaiguri District.—District in the north-east of the Rājshāhi Division, Eastern Bengal and Assam, lying between 26° and 27° N. and 88° 20′ and 80° 53′ E., with an area of 2,962 square miles. It is bounded on the north by Darjeeling and the State of Bhutān; on the south by Dinājpur, Rangpur, and the State of Cooch Behār; on the west by Dinājpur, Purnea, and Darjeeling; on the east the Sankos over separates it from the Goālpāra District of Assam.

The District comprises two well-defined tracts, which differ alike in history and in administration. The older portion, which is known as

the Regulation tract because it is administered under the ordinary laws and regulations in force in Bengal proper, hes for the most part west of the Tista, though it comprises also the Pätgrām thāna cast of that river. It originally formed part of Rangpur, which it closely resembles. The continuous expanse of level paddy-fields is broken only by the groves of 'samboos, palms, and fruit-trees which encircle the homesteads of the substantial tenant-farmers. In this tract there is but little untilled land, with the exception of an extensive and once valuable sāl (Shorea robusta) forest of 60 square miles, which belongs to the Raikat of Baikuntpur.

East of the Tista, and bemmed in between the States of Cooch Behär on the south and Bhutān on the north, lies a strip of submontane country 22 miles in width, which was annexed from Bhutān in 1865, and is known as the Western Duāres. This part of the District is flat except in the north-east corner, where the Sinchulā Hills rise abruptly to a height of from 4,000 to 6,000 feet. On an outlying spur of this range, 2,000 feet in height, is built the military station of Buxa, which commands one of the principal passes into Bhutān.

The scenery along the foot of the mountains, where the great rivers debouch upon the plains, is very grand and beautiful, the blue outline of the Bhutān range forming a magnificent background. The principal rivers, proceeding from west to east, are the Mahānandā, Karatoyā, Tista, Jaldhākā, Duduyā, Mujnai, Torsā, Kāljāni, Raidāk, and Sankos, which all flow down from the hills in a southerly direction and

ultimately discharge their waters by various channels into the Ganges or the Brahmanutra. They are constantly changing their main channels, and the country is everywhere seamed by deserted river-beds. The Ialdhaka or Di-chu, drains the eastern slopes of the Rishi La in Darieeling District of which it forms the eastern boundary. It joins the Torsa in Rangour District, and the combined stream falls into the Brahmanutra by two mouths. Though a wide river, the Jaldhākā is very shallow and is fordable in every part during the winter months-The Duduya and Mujnai, tributaries of the faldhaka, are navigable throughout the year by boats of 2 tons as far as the Alipur-Ialpaiguri road and Fālākāta respectively. The Torsā rises in the Chumbi valley of Tibet, where it is known as the Amo-chu, and flows through Bhutan; it is navigable by cargo boats during the rains. The Kāljāni, which is formed by the combined waters of the Alaikuri and Dima, after a course of a few miles enters the Cooch Behar State; it is used to float down timber from the forests at the foot of the hills. The Raidak rises near the Chumalhari mountain in Tibet. This river and the Sankos, which forms the boundary between the Eastern and Western Duārs, thus separating Eastern Bengal from Assam, flow into the Brahmaputra a few miles below Dhubri. Both rivers are navigable by boats of 3 or 4 tons for a considerable portion of their course, but 5 or 10 miles before reaching the hills navigation is impeded by rapids.

With the exception of the Buxa hills, the District is covered by recent alluvial deposits, consisting of coarse gravels at the foot of the hills, sandy clay and sand along the course of the rivers, and fine sand consolidating into clay in the other parts of the river plain. The Buxa hills are composed of a series of beds named after them, which consist of variegated slates, quartzites, and dolomites, and are fringed on the south by low hills of Upper Tertiary strata. About half a mile west of Buxa copper ore occurs in greenish slate with quartzose layers, and copper ores are found also 4 miles north of Sām Sing Tea Estate, close to the boundary between Jalpaigurī and Darjeeling Districts. Masses of calcareous tufa occur along the base of the hills 1.

In the regulation portion of the District and the south of the Duārs the tree vegetation is sparse and rather stunted except in the Baikuntpur jungle, and the greater portion of the surface is covered with grasses, the commonest of these being *Imperata arundinaceu* and *Andropogon aciculatus*. Among the trees, the most conspicuous is the red cotton-tree (*Bombax malabaricum*); the sissū (Dalbergia Sissoo), mango, jack, pīpal, and tamarind occur, as planted or sometimes self-sown species. The villages are surrounded by thickets or shrubberies of semi-spontaneous growth and weedy character. Areca palms are

¹ F. R. Mallet, 'Geology of Darjeeling and Western Dukes,' Memoirs, Geological Survey of India, vol. xi, part i.

common, and bamboos thrive luxuriantly. Along the north of the Duars are large upland tracts of forest, part of which has been 'reserved' and is described below, declining southwards into plains of heavy grass jungle. Many varieties of orchids bloom in the forests; and there is a curious creeper, the pāni lahrā (Vitis repanda), from whose stem water is obtained.

The District is famous for its big game, which include wild elephants, bison, rhinoceros, buffaloes, tigers, leopards, bears, wild hog, swamp deer (Cervus duvauceli), and sāmbar (Cervus unicolor). A few elephants are caught on behalf of Government. The number of rhinoceros, bison, and buffaloes has been rapidly decreasing; and to prevent their extinction, they are now protected in the 'reserved' forests. Good mahaver fishing is to be had where the Jaldhākā, Torsā, Raidāk, and Sankos debouch from the Himālayas.

The temperature is rarely excessive; the mean, which is 62° in January, rises to 73° in March and 79° in April, but it does not reach its highest point until July and August, when it is 83°. The highest mean maximum is 90° in April, and the highest maximum recorded was 103° in 1899. Rainfall is exceptionally heavy, the average varying from 122 inches at Jalpaiguri town to 209 inches at Buxa; and the normal mean is 129 inches, of which 12·3 inches occur in May, 25·6 in June, 28·1 in July, 27·4 in August, and 21·4 in September.

In September, 1902, an exceptionally high flood caused great damage in the tract between Jalpaiguri and Mandalghāt, bounded on the east by the Tista and on the west by the railway embankment, and also in the Maynāguri tahsil between the Dharlā and the Tista; the roads and the railway embankment were breached, hundreds of cattle were drowned, and ten lives were lost. In the earthquake of 1897 much damage was done to roads by subsidence and the opening of deep fissures, and many bridges and buildings were destroyed.

In prehistoric times the District formed part of the powerful kingdom of Pragjyotisha or Kāmarūpa, as it was subsequently called, which

History.

extended as far west as the Karatoyā. There is a legend that a temple was originally erected on the site of the present temple at JALPES by a Rājā named Jalpeswar, in whose day the Jalpes lingam first appeared. There are extensive remains at BHITARGARH, which is said to have formed the capital of a Sūdra king named Prithu. The Bengal Pāl dynasty included this District in its dominions; and so did the Khen Rājās—Nīladhwaj, Chakradhwaj, and Nīlāmbar—of whom the first founded the city of KAMĀFĀPUR in Cooch Behār. It subsequently formed part of the Koch kingdom founded by Biswa Singh; and, when that kingdom fell to pieces, the western part was annexed by the Mughals. There was a long struggle for the possession of Pāṭgrām and Bodā: but

at the beginning of the eighteenth century they were nominally ceded to the Muhammadans, a cousin of the Cooch Behär Rājā continuing to farm them on his behalf. After the Muhammadan conquest it was included in the frontier faujdāri (magisterial jurisdiction) of Fakīrkundi or Rangpur, and passed to the East India Company with the cession of the Dīwāni in 1765.

The enormous area of the old District of Rangpur and the weakness of the administrative staff prevented the Collector from preserving order in the more remote parts, which thus became an Alsatia of banditti. In the year 1789 the Collector conducted a regular campaign against these disturbers of the peace, and with a force of 200 barkandāz blockaded them in the great forest of Baikuntpur. They were at last compelled to surrender, and within a single year no less than 549 robbers were brought to trial.

Meanwhile, the Duars, or lowland passes, had fallen to the Bhotias, who found here the cultivable ground that their own bare mountains did not afford. They exercised predominant influence over the whole tract from the frontier of Sikkim as far east as Darrang, and frequently enforced claims of suzerainty over the enfeebled State of Cooch Behär. They do not appear to have occupied this tract permanently, but merely to have exacted a heavy tribute, and subjected the inhabitants to the cruellest treatment. Cooch Behar was delivered from the Bhotia tyranny by the treaty of 1773; but the Bhutan Duars, as they were called, remained for nearly a century longer in a state of anarchy. They were annexed after the Bhutan War of 1865; they were then divided into the Eastern and Western Duars, of which the former have since been incorporated with the District of Goalpara. In 1867 the Dālingkot subdivision of the Western Duārs, which lies high up among the mountains, was added to Darjeeling, and the remaining part was in 1860 united with the Titalya subdivision of Rangour to form the new District of Jalpaiguri.

The permanently settled portion of Jalpaiguri, which includes the old chaklas of Pätgräm and Bodā and the old Rāj of Baikuntpur, has no history of its own apart from the parent District of Rangpur. Its boundaries are perplexingly intermingled with those of the State of Cooch Behār, to which, as we have seen, it belonged until comparatively recent times. At the present day by far the wealthiest landowners are the Mahārājā of Cooch Behār and the Raikat of Baikuntpur, who is descended from a younger branch of the same family.

In addition to the old fort at BHITARGARH and the temple at JALPES, there are the remains at Bodā of a smaller fort about a mile square, supposed to be coeval with the fort at Bhitargarh. In the south of the District, small forts, temples, and old tanks are numerous.

The population increased from 417,855 in 1872 to 580,570 in 1881,

Population. 1891, and to 787,380 in 1901. Though the figures for 1872 cannot be accepted as accurate, there has been a continuous growth of population due entirely to the rapid development of the Western Duārs; and in 1901 more than one-fifth of the population was composed of immigrants from elsewhere. Malaria is always prevalent in the tarai, and in eight years of the decade ending 1901 Jalpaiguri figured among the six Districts with the highest recorded mortality from fever in Bengal. Spleen and goitre are common diseases, and the proportion of persons suffering from insanity and deaf-mutism is higher than in most parts of Bengal.

The chief statistics of the Census of 1901 are shown below :-

| Subdivision. | Area in square | Town Non | Villages of | Population, | Population per | Percentage of variation in population between 1891 and 1901 | Number of persons able to read and write. |
|----------------|----------------|-------------|-------------|-------------|----------------|---|---|
| Jalpaiguri | 1,820 | 1 | -88 | 668,027 | 367 | + 9.8 | 27,605 |
| Alipur , . | 1,144 | I | 178 | 119,353 | 105 | + 64.7 | 3.219 |
| Instruct total | 2,962 | 2 | 766 | 787,380 | 266 | + 15 7 | 30,834 |

The two towns are JALPAIGURI, the head-quarters, and the cantonment at Buxa. Outside these, more than half of the population are contained in villages with 2,000 or more inhabitants, and only 13 per cent, in villages with a population of less than 500. village in this District was, however, merch a territorial unit and did not correspond to the residential village. The latter, in fact, can scarcely be said to exist; for the country is divided into small farms each with its central homestead, the residence of the firmer or totdar, surrounded by the houses of his immediate relatives and perhaps an under-tenant or two. In the north-west of the District the conditions of the tea industry have given rise to large settlements of labourers, the average nopulation of which is over 3,000 souls. The density is very low; in only one thana does the population exceed 500 per square mile, and in only three more does it exceed 400. The Duars, which were very sparsely inhabited when first acquired, carry a smaller population than the rest of the District. Towards the west this tract has filled up rapidly owing to the extension of tea cultivation; but in the east the population is still very scanty, and in the Alipur thana it averages only 89 persons per square mile, in spite of an increase of 70 per cent. during the last ten years. There is a steady movement of the population from the west of the District towards the extensive tracts of cultivable land east of the Tista, and there is also an enormous immigration of teagarden coolies from Chotā Nāgpur and the Santāl Parganas; Rānchī alone supplies 80,000, chiefly Oraons and Mundas, and the Santal Parganas 11,000. Many of these coolies are settling down permanently, either in the gardens or as cultivators and cart-owners, but many return home at intervals. In the tea gardens on the higher slopes at the foot of the hills, Nepälese replace men from Chota Nagpur, and many of these also find a permanent home in the District. Numerous up-country coolies are employed on the roads and railways, but most of them return home at the end of the cold season.

A corrupt dialect of Bengali, known as Rangpuri or Rājbansī, is the language of the District, being spoken by 77 per cent. of the population; Hindī is the language of 6 per cent. and Kurukh of 7 per cent.; Mech is spoken by over 20,000 persons, and Khās, Mundārī, and Santālī by more than 10,000 each. This great diversity of languages is due to the large number of immigrants. Hindus (534,625) form 68 per cent. of the population, Muhammadans (228,487) 29 per cent., and Animists 2 per cent., while the remainder are Christians or Buddhists.

The proportion of Muhammadans has declined since 1872, when they formed 34-6 per cent, of the population. They are chiefly Shaikhs and Nasvas, and are, for the most part, converts from the aboriginal Koch and Mech races. They still retain many beliefs and superstitions derived from their ancestors, and live on good terms side by side with the Raibansis (Koch), to whom more than three-fifths of the Hindu population belong; it is, in fact, not unusual to find Muhammadan and Raibansi families dwelling together in the same homestead, although in separate houses. The Mechs, a western branch of the great Kāchāri tribe, number about 22,000, found chiefly in the Alipur and Fālākāta thanas in the Duars. These, like their Garo neighbours, are a nomadic people, who live by agriculture in its simplest and most primitive form. No less than 80-4 per cent, of the population, or over 700,000 persons, are supported by agriculture-a very high proportion; a sixth of these derive their livelihood from the tea gardens. Of the remainder, industries maintain 4.6, commerce 0.3, and the professions o.6 per cent.

The Baptist Missionary Society has a branch in Jalpaigurī town; the Church Missionary Society carries on work among the Santāl colony in the Alīpur subdivision, the Scandinavian Alliance Mission among the Bhotiās, and the Free Church of Scotland among the tea-garden coolies. The number of native Christians is 2.141.

The alluvial soil with which the greater part of the District is covered is extremely fertile. In the low levels between the Tīsta and the Sankos coarse rice, oilseeds, potatoes, castor, and areca palms grow abundantly. West of the Tīsta, a superior variety of jute, known as rājganja, is grown, and also fine rice and wheat. In the basin between the Tīsta and the Jaldhākā a hard black clayey soil is found, which yields excellent pasture and fine

crops of tobacco. The ferruginous clay of the uplands in the north of the Duārs is exceptionally well suited to the tea plant.

The chief agricultural statistics for 1903-4 are shown below, areas being in square miles:-

| Sub-h | in ou | Total, | Cultivated. | Cultivable waste. | Forest. |
|----------------------|-------|--------|-------------|----------------------|------------|
| Jalpaiguri Alīpur | : : | 1,820 | 934 432 | 196 341 | 137 359 |
| | Total | 2,962 | 1,366 | 637 | 496 |

The staple food-crop of the District is rice, grown on 1,017 square miles, or 74 per cent. of the net area cropped; the winter rice, which is the chief crop, covering 54 per cent. of that area. The cultivation of the early rice, which is sown broadcast on high lands, begins in March. The early varieties, sown in March or April, are reaped in June and July, but the greater part is sown in April and May, and not reaped till August or September. The winter rice is sown broadcast in nurseries in May and June, transplanted from the middle of July to the middle of September, and reaped during December and January. After rice, tobacco is most widely grown, occupying 185 square miles, or nearly 14 per cent. of the cultivated area, Jalpaiguri is, in fact, after Rangpur, the chief tobacco producing District in Eastern Bengal.

Tea is cultivated on 121 square miles, or o per cent, of the area under cultivation. This industry was introduced in 1874, and is carried on mainly by European enterprise and with European capital. In 1876 there were thirteen gardens, with an area of 818 acres, yielding 29,520 lb. of tea. The cultivation was very rapidly extended during the last decade of the nineteenth century; and by 1901 the number of gardens had increased to 235, with a planted area of 109 square miles, and an out turn of over 31,000,000 lb. These gardens also possessed an unplanted area of 255 square miles. In 1003 the number of gardens decreased to 207, but the gross yield in that year amounted to nearly 37,000,000 lb. Jalpaiguri has an important advantage over the tea Districts of Assam, as labour finds its way thither freely and no special law is necessary to enforce labour contracts. The production of tea of late years has increased so much more rapidly than its consumption that there has been a heavy fall in prices, and the industry has suffered in consequence. Jute cultivation is extending rapidly, and in 1903 occupied 103 square miles. Mustard is also widely cultivated, and cotton is grown in small quantities by the Garos and Mechs on uplands at the foot of the Bhutan hills.

The area under cultivation is extending rapidly in the Western Duārs, where there is still much cultivable waste; the rates of rent are very

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low, and cultivators are attracted not only from the *thanas* west of the Tista, but also from Rangpur and Cooch Behär State. Little use has been made of the Agriculturists' and Land Improvement Loans Acts; during the decade ending 1901-2 an average of Rs. 2,000 per annum was advanced under the former Act.

The local cattle are small and weakly, and no attempts have been made to improve the breed. Pasturage is so abundant that in the northern thānas of the Western Duārs rice straw is left to rot in the fields, while large herds of cattle from Bengal and Bhutān are brought to graze in the Baikuntpur jungle during the winter months. Fairs are held at ALĪPUR, JALPES, and FĀLĀKĀTA.

The soil for the most part derives sufficient moisture from the heavy rainfall, but low lands are in some places irrigated from the hill streams.

Ialpaigurf contains extensive forests, which are the property of Go-

vernment. With the exception of 5 square miles of 'protected' forests in the Government estates of l'alakata and Maynaguri, which are managed by the Deputy-Commissioner. these are all 'reserved' forests under the management of the Forest department. The latter in 1003-4 yielded a revenue of Rs. 1.18.000. They are divided into the lalpaiguri and Buxa divisions, the former comprising all the forests between the Tista and the Torsa rivers, with an area of 183 square miles; and the latter, those between the Torsa and the Sankos, with an area of 308 square miles. The trees are of many different kinds, but there are five well-defined types: namely, sal (Shorea robusta); mixed forest without sal; mixed chilauni (Schima Wallichii) forest ; khair (Acacia Catechu) and sissū (Dalbergia Sissoo) forest; and savannahs. Of these the sal is the most important, and occurs either nearly pure or mixed with varying proportions of Dillenia pentagyna, Careya arborea, Sterculia villosa, Schima Wallichii, Terminalia tomentosa, and T. bellerica, &c. The mixed forests are composed chiefly of Lagerstroemia parviflora, Callicarpa arborea, Sterculia villosa, Hymen triinga, and often Terminalia tomentosa and Albizzia. The chilauni type of forest is more clear of other subsidiary species than ordinary mixed forest, the chilauni being the predominant species and growing to a large size. Khair and sissū are found pure in the alluvial deposits of most of the large rivers. The savannahs, or large stretches of grass land devoid of trees, deserve mention both on account of their extent and their bearing on the work of fire protection. The sal forest belonging to the Raikat of Baikuntpur is now of little value, owing to promiscuous felling. The Rājbansis and Mechs collect what little jungle produce there is, principally chiretta, lac, and beeswax, quantities of long pepper (Piper longum) are also collected by the Forest department.

The only mineral of importance is limestone, which is largely

quarried in the shape of calcareous tufa along the base of the Bhutān hills. A small copper-mine at Chunābāti, 2 miles from Buxa, was formerly worked by Nepālese. Coal is found near Bāgrākot, and a company has been formed to work it.

Gunny cloth of a very coarse quality is woven in the western part of the District. The lower classes also manufacture for home use a coarse silk (called endi) from the silk of worms fed on the castor-oil plant, and a striped cotton cloth called thatā.

The development of the tea industry and the influx of a large cooly population into the Duars, combined with the facilities of railway communication, have given a great impetus to trade; and at the large markets which have sprung up in the neighbourhood of the tea gardens, the cultivator finds a ready market for his rice, vegetables, and other produce. There is also a fair amount of trade with Bhutan, which has been stimulated by the establishment of fairs at FALAKATA and ALIPUR. The chief exports to Bhutan are European piece-goods and silk, while timber and oranges are the principal imports. The local supply of rice being insufficient, considerable quantities are imported from Dinājpur; cotton piece-goods, machinery, corrugated iron, kerosene oil, coal and coke are also imported on a large scale. The tea, tobacco, and jute crops are all grown for export. The tea and jute are railed to Calcutta; the tobacco trade is chiefly in the hands of Arakanese who export the leaves to Burma, where they are made into cheroots. The railways have now monopolized most of the trade. but sal timber is floated down from the forests of the Western Duärs and the Barkuntpur jungle to the Brahmaputra en route for Smajganj, Dacca, and elsewhere; and tobacco, mustard seed, jute, cotton, and hides are also exported by water to these markets, the chief centre being Baura. The up-stream traffic is practically confined to the importation of earthen cooking utensils, coco-nuts, molasses, small quantities of dal (Arabica revalenta), and miscellaneous articles from Dacca and Fandpun. Apart from the large tea-garden markets and the fair of JALPES, the principal trading centres are JALPAIGURI Town, Titilya on the Mahananda where the great north road enters the District, Rajnagar, Säldanga, Debiganj on the Karatoya, BAURA, Jorpokri, Maynaguri, Fālākāta, Alīpur, and Buxa.

The District is well served by railways. The western portion is traversed from south to north by the Eastern Bengal State Railway, which has its northern terminus just over the Darjeeling border at Siligurf. The Bengal-Duārs Railway leaves the Pārvatīpur-Dhubri branch of the Eastern Bengal State Railway at Lālmanir Hāt, and runs north west through Pātgrām to Barnes Ghāt, on the east bank of the Tista opposite Jalpaigurf town, where a ferry connects with the

Eastern Bengal State Railway; at Māl Bāzār it bifurcates, one branch running west through Dām-Dim to Bāgrākot, and another east to Mādāri Hāt. In the east the Cooch Behār State Railway enters the District at Alīpur and runs north to Jaintī.

The District contains 877 miles of road, of which 106 miles are maintained by the Public Works department and the remainder by the District board. Of the latter, 24 miles are metalled and 747 miles are unmetalled. There are also 10 miles of village tracks. In spite of the improvement and increase in the number of roads during recent vears, there is still a great deficiency in some parts of the Duars east of the Jaldhākā river, in which it is extremely difficult to maintain good roads owing to the heavy rainfall and the rapid growth of jungle. The principal routes are those which connect Jalpaiguri town with Siliguri. with the northern border via Dam-Dim, with a ferry on the Sankos river, and with Alīpur. The last-mentioned road is in very good order. being well raised and bridged, except at the larger rivers, which have ferries. The central emigration road, which runs east from Dinaipur through Jalpaiguri District as far as Haldībāri station and thence through the Cooch Behar State, is an important feeder to the Eastern Bengal State Railway. The board also maintains several important Provincial roads, including the Ganges-Darjeeling road, which runs for 16 miles along the north-western border of the District from Titalya to Silīgurī, the branch-road from Titālya to Jalpaigurī, and the road from Jalpaiguri to Patgram. There are 80 ferries, which, with six unimportant exceptions, belong to the District board, and bring in an annual revenue of Rs. 18,000; the most important are those over the Tista and Ialdhākā rivers. Of late years there has been a considerable decrease in the number of ferries, owing to the opening of the Bengal-Duars Railway and to the bridging of sixteen streams which formerly required ferries.

For general administrative purposes the District is divided into two subdivisions, Jalpaiguri and Alīpur. The former is immediately under the Deputy-Commissioner; he is assisted by five Deputy-Magistrate-Collectors, of whom two are employed exclusively on revenue work. The Alīpur subdivision is in the charge of a European Deputy-Magistrate-Collector. The Maynāguri, Fālākāta, and Alīpur circles in the settled tracts of the Duārs are in charge of three Sub-Deputy-Collectors. Two Forest officers manage the Jalpaiguri and Buxa divisions, and an extra assistant Conservator is attached to the former division.

Jalpaigurī forms, with Rangpur, the charge of a single District and Sessions Judge, and the Sub-Judge of Dinājpur is an additional Sub-Judge in this District. The other civil courts are those of two Munsifs at Jalpaigurī town and of the subdivisional officer of Alīpur, who is

vested with the powers of a Munsif within his subdivision. The Deputy-Commissioner has special additional powers under section 34 of the Criminal Procedure Code. Subordinate to him are three Deputy-Magistrates at head-quarters, the subdivisional officer of Allpur, and three benches of honorary magistrates, who sit at Jalpaiguri, Bodā, and Deblganj. As in other parts of Eastern Bengal, cases due to disputes about land are common, and dacoities are not infrequent.

Patgram, Boda, and the Backuntpur estate were permanently settled in 1793 as part of the province of Rangour. The Western Duars have been settled temporarily from time to time, the last settlement having been concluded in 1895. The current demand for land revenue in 1001-4 was 7-51 lakhs, of which Rs. 1.37,000 was payable by 82 permanently settled estates, Rs. 1,07,000 by 205 temporarily settled estates, and the remainder by s estates managed direct by Government. In the permanently settled portion of the District rents vary from Rs. 1-0 an acre, which is paid for cultivable waste, and Rs. 1-15 for once-cropped land, up to Rs. o- 2 for the best jute, rice, and homestead lands. In special cases higher rates are charged, Rs. 15 being sometimes paid for bamboo land and Rs. 24-4 for betel-leaf gardens or areca groves. In the Duars, where Government is the immediate landlord, rates rule considerably lower: namely, a annas for waste, from Rs. 1-2 to Rs. 1-6 for high land, from Rs. 1-6 to Rs. 2 for low land, according to the situation with reference to markets and roads, and Rs. 3 for homestead land. In the Duars about half the area has been let out by the joidars, or tenants holding immediately under Government, to chukānidārs, or sub tenants, whose holdings have been recomized as permanent.

The following table shows the collections of land revenue and total revenue (principal heads only), in thousands of rupees:—

| | 1880-1. | - Lfigu⊨r | 1900-t, | 1903-1 |
|----------------|---------|--------------|---------|--------|
| Land revenue | 3,62 | 4.23 | 7,03 | 7,46 |
| l'otal revenue | 5,37 | 7:54 | | 73,49 |

Outside JALPAIGURÎ municipality and BUXA cantonment, local affairs are managed by the District board, in subordination to which a local board has recently been constituted at Alipur. In 1903-4 the income of the District board was Rs. 1,35,000, of which Rs. 69,000 was obtained from rates; and the expenditure was Rs. 1,21,000, including Rs. 84,000 spent on public works.

The District contains 11 thanas or police stations and 10 outposts. The force subordinate to the District Superintendent consists of 2 inspectors, 25 sub-inspectors, 29 head constables, and 287 constables, besides a rural police of 1,467 village watchmen, grouped in circles

under 78 head watchmen. The District jail at Jalpaiguri town has accommodation for 122, and a subsidiary jail at Alipur for 22 prisoners.

Owing partly to the sparse population and the absence of regular village sites, education is very backward, and the proportion of persons able to read and write in 1901 was only 3-9 per cent. (7 males and 0.4 females). Considerable progress has, however, been made. The total number of pupils under instruction increased from 3,582 in 1882 to 7,623 in 1892-3 and to 12,033 in 1900-1, while 13,013 boys and 935 girls were at school in 1903-4, being respectively 20.5 and 1.7 per cent. of those of school-going age. The number of educational institutions, public and private, in that year was 563, including 15 secondary and 528 primary schools. The expenditure on education was Rs. 67,000, of which Rs. 13,000 was met from Provincial funds, Rs. 20,000 from District funds, Rs. 750 from municipal funds, and Rs. 22,000 from fees. The figures include one small school for aboriginal tribes at Buxa.

In 1903 the District contained 8 dispensaries, of which 4 had accommodation for 30 in-patients. At these the cases of 38,000 outpatients and 480 in-patients were treated during the year, and 840 operations were performed. The expenditure was Rs. 12,000, of which Rs. 4,000 was met from Government contributions, Rs. 3,000 from Local and Rs. 1,600 from municipal funds, and Rs. 3,000 from subscriptions.

Vaccination is compulsory only in Jalpaiguri municipality. In 1903-4 the number of successful vaccinations was 25,000, representing 32 per 1,000 of the population. There is less opposition to infant vaccination than in most parts of East and North Bengal.

[Martin, Eastern India, vol. iii (1838); Sir W. W. Hunter, Statistical Account of Bengal, vol. x (1876); D. Sunder, Report on the Settlement of the Western Duārs (Calcutta, 1895).]

Jalpaiguri Subdivision.—Head-quarters subdivision of Jalpaiguri District, Eastern Bengal and Assam, lying between 26° and 27° N. and 88° 20′ and 89° 7′ E., with an area of 1,820 square miles. The population was 668,027 in 1901, compared with 668,289 in 1891. It contains one town, Jalpaiguri (population, 9,708), its head-quarters, and 588 villages, and has a density of 367 persons per square mile, or more than three times that of the Alīpur subdivision. The general aspect of the subdivision is that of an extensive plain, undiversified by hills or any large sheet of water, but containing extensive forests. The country is level and open, and is watered by several large rivers, including the Tīsta and Jaldhākā. It comprises two totally distinct tracts. The Maynāgurī and Dām-Dim thānas and the Dhupgāri outpost, which form part of the Western Duārs acquired from Bhutān in 1865, are rapidly increasing in population and prosperity on account

of the expansion of the tea industry; while the population of the western thans, which are permanently settled and originally formed part of Rangpur, is declining. There are interesting ruins at BHITARGARH and JALPES. The chief centres of commerce are Jalpaiguri town, Titalya, BAURA, and Maynaguri.

Jalpaiguri Town.-Head-quarters of Jalpaiguri District Eastern Bengal and Assam, situated in 26° 32' N. and 88° 43' E., on the right bank of the Tista. Population (1901), 9,708. The town, though small, is progressive, and is the chief distributing centre in the District. It is served by the Eastern Bengal State Railway, while Barnes Ghat on the east bank of the Tista, opposite to the town, is a station on the Bengal-Duars Railway, and the smaller marts and the tea gardens are supplied by its traders. Jalpaiguri was constituted a municipality in 1888. The income during the decade ending 1901-2 averaged Rs. 20,000, and the expenditure Rs. 18,000. In 1003-4 the income was Rs. 30,000, including Rs. 0,000 obtained from a tax on persons (or property tax) and Rs. 7.000 from a conservancy rate; and the expenditure was Rs. 25,000. Rs. 24,000 has been spent on a drainage scheme, for which an estimate of Rs. 20,000 has been sanctioned by Government. Jalpaiguri is the head-quarters of the Commissioner of the Rajsbahi Division, an Inspector of schools, an Executive Engineer. and of the Denuty-Conservators of Forests in charge of the Buxa and labaigurt divisions; it is also the head-quarters of a detachment of the Northern Bengal Mounted Rifles. The town contains the usual public offices. The District iail has accommodation for 122 prisoners, who are employed in oil pressing, twine and rope-weaving, stone-breaking, cane work, and dal and rice-husking, the products being disposed of locally. The chief educational institution is a high school maintained by Government, with 270 pupils on its rolls.

Jalpes. Village in the head quarters subdivision of Jalpaigurī District, Eastern Bengal and Assam, situated in 26° 31' N. and 88° 52' E. Population (1901), 2,088. It contains a temple of Siva, which was built on the site of an earlier temple by one of the Cooch Behār Rājās about three centuries ago. This, the most conspicuous ruin in the District, is a massive red-brick building, surmounted by a large dome with an outer diameter of 34 feet, round the base and top of which run galleries; it stands on a mound surrounded by a moat near the bank of the river Jarda. A flight of steps leads down to the basement, which is sunk some depth in the mound and contains a very ancient lingam. This lingam is in the hymns to Siva called anādi ('without beginning'), and is referred to in the Kālika Purāna, which says that somewhere in the north-west of Kāmarūpa Mahādeo appeared himself in the shape of a vast lingam. An old-established fair is held at Jalpes on the occasion of the Sivarātrī festival in February; it lasts

for about a fortnight and is attended by the people from all parts of the District as well as from Dinājpur, Rangpur, and elsewhere. Bhotiās come from Darjeeling, Buxa, and Bhutān with ponies, skins, cloth, and blankets, and take away cotton and woollen cloths, betel-nut, and tobacco.

[Martin, Eastern India, vol. iii, pp. 441-2.]

Jamālābād.—A precipitous rock rising to a height of 1,788 feet at the end of a spur of the Kudremukh in the Uppinangadi tāluk of South Kanara District, Madras, situated in 13° 2′ N. and 75° 18′ E. On his return from Mangalore in 1784, Tipū, struck with the strength of the position, built and garrisoned a fortress on the top, calling it Jamālābād in honour of his mother Jamāl Bai, and made the town at the foot the residence of an official. The fort was captured by the British in 1799, but shortly afterwards fell into the hands of the adherents of a Mysore pretender. The garrison, however, was forced to surrender after a three months' blockade in June, 1800. The town, formerly known as Narasimhangadi, no longer exists.

Jamalpur Subdivision.—North-western subdivision of Mymensingh District, Eastern Bengal and Assam, lying between 24° 43' and 25° 26' N. and 89° 36' and 90° 18' E., with an area of 1,289 square miles. The subdivision is an alluvial tract, intersected by numerous rivers and streams. The population in 1901 was 673,398, compared with 579,742 in 1891. It contains two towns, Jamalpur (population, 17,965), the head-quarters, and Sherpur (12,535); and 1,747 villages. The density is 522 persons per square mile, against 618 for the whole District. The ruins of an old mud fort, said to have been built by an independent Muhammadan chief, are still in existence at Garh Jaripā.

Jamālpur Town (1).—Head-quarters of the subdivision of the same name in Mymensingh District, Eastern Bengal and Assam, situated in 24° 56′ N. and 89° 56′ E., on the west bank of the old Brahmaputra. Population (1901), 17,965. It is connected with Nasīrābād, 35 miles distant, by a good road and also by the Dacca-Mymensingh branch of the Eastern Bengal State Railway, which has recently been extended to the Brahmaputra at Jagannāthganj. Jamālpur was constituted a municipality in 1869. The income during the decade ending 1901—2 averaged Rs. 11,700, and the expenditure Rs. 10,300. In 1903—4 the income was Rs. 12,000, mainly derived from a property tax and a conservancy rate; and the expenditure was Rs. 11,000. Jamālpur was a military station prior to the Mutiny. The town possesses the usual public buildings. The sub-jail, which was once the magazine, is a specimen of the solid masonry of an early period; it has accommodation for 27 prisoners.

Jamalpur Town (2).—Town in the head-quarters subdivision of VOL. XIV.

Monghyr District, Bengal, situated in 25° 10' N, and 86° 30' E., at the foot of the Monghyr hills, on the loop-line of the East Indian Railway, 200 miles from Calcutta. The population at the Census of March, 1001, was 13.020, compared with 18.080 in 1891; but a second enumeration eight months later disclosed a population of 16.302. decrease on the first occasion was chiefly due to many persons having left the town on account of the plague; but subsidiary causes were the transfer of the audit department of the East Indian Railway to Calcutta and the introduction of workmen's trains from the neighbouring stations, owing to which many of the workmen have settled outside the town. Jamalour is the head-quarters of the locomotive department of the East Indian Railway, and contains the largest manufacturing workshops in India. Locomotives are put together, and railway material of all descriptions is made in malleable iron, cast iron, and steel, works cover an area of 99 acres, and employ about 230 Europeans and 0,000 native mechanics and labourers. Jamalpur was constituted a municipality in 1883. The income and expenditure during the decade ending 1901-2 averaged Rs. 20,000. In 1903-4 the income was Rs. 25,000, mainly derived from a tax on houses and lands and a conservancy rate: and the expenditure was Rs. 22.000. There is no municipal water-supply, but the workshops obtain a supply from reservoirs constructed at the base of the hills. Jamalour contains an Institute, comprising a library, reading and billiard-rooms, an entertrunment hall, and swimming bath; also a church and aided schools for Europeans and natives.

Jamar. -- Petty State in Kathiawar, Bombay.

Jambusar Tāluka.—Northern tāluka of Broach District, Bombay, lying between 21 54' and 22° 15' N. and 72° 31' and 72° 56' E., with an area of 387 square miles. The population in 1901 was 61,846, compared with 82,396 in 1891. The density, 160 persons per square mile, is below the District average. The tāluka contains one town, Jambusar (population, 10,181), its head-quarters; and 81 villages. The land revenue and cesses in 1903 4 amounted to 5.3 lakhs. The country consists of two tracts of level land. Towards the west lies a barren plain, and in the east is a well-wooded stretch of light soil. In the latter tract are large and sweet springs, but in the former the water-supply is defective. The staple crops are jowār, bājra, and wheat; while miscellaneous crops include pulses, peas, tobacco, cotton, and indigo.

Jambusar Town.—Head-quarters of the *tāluka* of the same name in Broach District, Bombay, situated in 22° 3′ N. and 72° 48′ E., 5 miles north of the Dhādhar river, and 27 miles from Broach city. Population (1901), 10,181. The town was first occupied by the British in 1775 and remained in their possession until 1783, when it was restored

to the Marāthās. Under the Treaty of Poona (1817) it was finally surrendered to the British. To the north of the town is a lake of considerable size sacred to Nāgeshwar, the snake-god, with richly wooded banks, and in the centre of the water rises a small island about 40 feet in diameter, overgrown with mango and other trees. The water-supply is chiefly derived from this tank. In the town is a strong fort, erected by Mr. Callender when Jambusar was held by the British from 1775 to 1783. This fort furnishes accommodation for the treasury, the civil courts, and other Government offices. The town contains a Sub-Judge's court, a dispensary, and 7 schools—6 (including an English school) for boys and one for girls—attended respectively by 553 and 106 pupils.

The municipality, established in 1856, had an average income of about Rs. 12.000 during the decade ending 1901. In 1903-4 the income was Rs. 13,900, including grants of Rs. 2.000 from Government for education. In former times, when Tankari, 10 miles south-west of Jambusar, was a port of little less consequence than Broach, Jambusar itself enjoyed a considerable trade. Indigo was then the chief export. With the opening of a railway (1861), the traffic by sea at Tankari fell off considerably. On the other hand, Jambusar is only 18 miles distant from the Palej station on the Bombay, Baroda, and Central India Railway: and, as roads have been made connecting Jambusar with both Pālej and Broach, a traffic by land has to some extent taken the place of the old sea-borne trade. It is in contemplation to connect Broach and Jambusar by rail. There are six cotton-ginning factories. Tanning, the manufacture of leather, and calico-printing are carried on to a small extent, and there are also manufactures of ivory armlets and toys.

Jamesābād (formerly Sāmāro).— Tāluka of Thar and Pārkar District, Sind, Bombay, lying between 24° 50′ and 25° 28′ N. and 69° 14′ and 69° 35′ E., with an area of 505 square miles. The population in 1901 was 24,038, compared with 19,208 in 1891. The density, 48 persons per square mile, is considerably above the District average. The tāluka contains 184 villages, of which Jamesābād is the headquarters. The land revenue and cesses in 1903-4 amounted to 3.7 lakbs. The tāluka is chiefly irrigated by the Jāmrao canal. Bājra, iambho, and wheat are the principal crops.

James and Mary Sands.—A dangerous shoal in the Hooghly river, Bengal, situated in 22° 14′ N. and 88° 5′ E., between the confluence of the Dāmodar and Rūpnārāyan rivers with the Hooghly. The sands are 3 miles long and a third of a mile in width. They are so named from the wreck of the ship Royal James and Mary which took place on these sands in 1694. The sands occupy the centre of the river, leaving channels on either side, known as the

Eastern and Western Gut; they are probably due to the diminution of the velocity of the current of the main channel, caused by the water of the Rūpnārāyan entering the Hooghly nearly at right angles. Various schemes have been suggested for evading this dangerous shoal; and it has more than once been proposed to dig a short canal at the back of Hooghly Point so as to avoid the sands, or to construct ship canals from the docks to Diamond Harbour or to Canning on the Mātla river. The problem was examined in 1865 and again in 1895 by experts, both of whom suggested the construction of walls to train the channel into the Western Gut. Neither proposal has been adopted by the Port Commissioners, who are at present considering another scheme to improve the existing channels by dredging.

Jamikunta.—Tāluk in Karīmnagar District, Hyderābād State, with an area of 626 square miles, including jāgīrs. The population in 1901 was 121,518, compared with 134,309 in 1891, the decrease being due to famine and cholera. The tāluk contains 158 villages, of which 9 are jāgīr, and Jamikunta (population, 2,687) is the head-quarters. The land revenue in 1901 was 4 lakhs. The tāluk is hilly towards the west, while isolated hills are seen everywhere. There is hardly any forest. Rice is largely cultivated, being irrigated from tanks.

Jamirāpāt.— A long winding ridge about 2 miles wide in the Surgujā State, Central Provinces, lying between 23° 22′ and 23° 29′ N. and 83° 33′ and 83° 41′ E. It rises to a height of 3,500 feet and forms put of the eastern boundary of the State where it borders on Chotā Nāgpur proper.

Jamka .- Petty State in Karhiawar, Bombay.

Jamkhandi State.-State under the Political Agent of Kolhapur and the Southern Maratha Country, Bombay, lying between 16° 26' and 16° 47' N. and 75° 7' and 75° 37' E., with an area of 524 square miles. The State was granted by the Peshwa to a member of the Patvardhan family. In 1808 it was divided into two shares, one of which, Tasgaon, lapsed to the British Government in 1848, through failure of heirs, while the other forms the present Jamkhandi States The population in 1901 was 105.357, the density being 201 persons per square mile. Hindus formed 87 per cent., and Muhammadans 10 per cent. of the total. The State contains 8 towns, the chief being Jamkhandi (population, 13,029), and 79 villages. A soft stone of superior quality is found near the village of Marigudi. The crops include cotton, wheat, the ordinary varieties of pulse, and millet; and the manufactures, coarse cotton cloth and native blankets for home consumption. The chief, who is a Brāhman by caste, ranks as a first-class Sardar of the Southern Maratha Country. He holds a

¹ These spherical values exclude the outlying $t\bar{a}huka$ of Kundgol, situated between 15° 7′ and 15° 9′ N. and 75° 13′ and 75° 23′ E.

sanad of adoption, and succession follows the rule of primogeniture. He has power to try his own subjects for capital offences. He maintains a force of 43 horse and 214 foot soldiers; and he pays to the British Government a tribute of Rs. 20,516. The revenue in 1903-4 was nearly 5.5 lakhs, of which 4.4 lakhs was derived from the land; and the expenditure was about 5 lakhs. A survey was introduced in the State in 1881-2. The State possesses six municipalities, the largest being Jamkhandi with an income of Rs. 10,000, and the smallest Hunnur with an income of Rs. 600. In 1903-4 there were 42 schools, including an English school, and the total number of pupils was 1,588. The State has a Central jail and 4 subordinate jails, with a daily average of 36 prisoners in 1903-4; and one hospital and three dispensaries, which treated 38,100 patients. In the same year about 2,300 persons were vaccinated.

Jamkhandi Town.—Capital of the State of the same name in Bombay, situated in 16° 30′ N. and 75° 22′ E., 70 miles north-east of Belgaum, and 68 miles east of Kolhāpur. Population (1901), 13,029. Jamkhandi is a municipality, with an income in 1903-4 of about Rs. 10,000. The town has about 500 looms and an extensive trade in silk cloths. It contains a high school and a hospital. An annual fair is held in honour of the god Umā Rāmeshwar, lasting for six days and attended by 20,000 people.

Jamkhed.—Tāļuka of Ahmadnagar District, Bombay, in the southeast corner of the District, surrounded by the Nizām's Dominions. The largest compact portion lies between 18° 33' and 18° 52' N, and 75° 11' and 75° 35' E. The area is 460 square miles, and the tāluka contains one town, KHARDA (population, 5,930), and 75 villages. head-quarters are at Jamkhed. The population in 1901 was 64,258, compared with 76,208 in 1891, the decrease being due to famine. The density, 140 persons per square mile, is above the District average. The demand for land revenue in 1903-4 was one lakh, and for cesses Rs. 7,000. Most of the villages are situated in the valley of the Sina, and a few on the Bālāghāt, an elevated and bare table-land, which gradually subsides eastward to the general level of the Deccan and is watered by a tributary of the Godavari. Several streams rise in the small spurs which jut from the Balaghat range, the most notable being the Inchana, which falls in a fine cascade, 210 feet high, through a ravine to the north-east of Jamkhed village. Whereas the soil of the Sina valley is deep and difficult to work, that of the Balaghat is of lighter texture and repays cultivation; while the country lying between this range and the boundary of Shevgaon is extremely fertile and wellwatered, except in the vicinity of the Sīna river, where the rainfall is uncertain. The climate of Jamkhed is healthy, and the annual rainfall averages about 26 inches.

Jāmki.—Town in the Daska tahsil of Siālkot District, Punjab, situated in 32° 23' N. and 74° 24' E. Population (1901), 4,216. It is said to have been originally called Pindi Jām from its joint founders, Pindi, a Khattrī, and Jām, a Chīma Jat. It is of no commercial importance. The municipality was created in 1867. The income during the ten years ending 1902-3 averaged Rs. 5,200, and the expenditure Rs. 5,100. In 1903-4 the income was Rs. 5,300, chiefly from octroi; and the expenditure was Rs. 5,700. An Anglo-vernacular middle school is maintained by the municipality.

Jammalamadugu Subdivision.—Subdivision of Cuddapah District, Madras, consisting of the Jammalamadugu, Productur, and

PULIVENDLA tāluks.

Jammalamadugu Tāluk (Jambulu-madugu, 'the pool of rushes').

North-western hāluk of Cuddapah District, Madras, lying between 14° 37' and 15° 5' N. and 78° 4' and 78° 30' E., with an area of 616 square miles. The population in 1901 was 103,707, compared with 101,296 in 1891. The density is 168 persons per square mile, the District average being 148. The tāluk contains one town, JAMMALAMADUGU (population, 13,852), the head-quarters; and 129 villages. The demand for land revenue and cesses in 1903-4 amounted to Rs. 2,72,000. The annual rainfall averages 22 inches, compared with 28 in the District as a whole, and 18 less than in any other tāluk.

Two small bill ranges run from east to west through the southern portion of Jammalamadugu, both of which are parts of the Erramalas (Errakondas) or 'red hills.' One of them divides the taluk from Pulivendla; and the other, which lies parallel to it, reaches its highest point at the fine gorge where the Penner bends sharply to the north and flows by Gandikota to the town of Jammalamadugu. The Penner and Chitravati rivers join near Gandlur on the west of the taluk, and their united channel drains the greater portion of the country. In the precipitous gorge of Gandikota, the river is reduced to an average width of 200 yards; but in the level plain near the chief town it is at least three times as broad. Its waters are utilized to some slight extent for irrigation channels, but the manner in which the land rises from the river banks prevents any great use being made of them. Except the Penner basin, the whole of the taluk may be included in the black cotton soil tract. The quality of the land varies considerably, being excellent in the north and west, but only mediocre in the south. The wide plains of black soil are almost entirely divided between the two crops of cholam and cotton. Indigo, gram, and oilseeds are also raised; but water is so scarce that rice and ragi may be said to be confined to the immediate neighbourhood of the Penner and its channels. The tāluk has been liable from time to time to inundations, In 1851 the village of Chautapalle, at the confluence of the Penner and

the Chitrāvati, was totally destroyed by flood. Enormous freshes came down both rivers simultaneously and carried away the whole place, drowning about 500 of its inhabitants. On the morning of September 12, 1902, a sudden deluge of rain swept away two spans of the railway bridge near the Mangapatnam railway station, with the result that the mail train was precipitated into the gap and seventy-one lives were lost. The Kurnool-Cuddapah Canal touches the north-east corner of the tāluk.

Jammalamadugu Town.—Head-quarters of the subdivision and tāluk of the same name in Cuddapah District, Madras, situated in 14° 51′ N. and 78° 14′ E., on the left bank of the Penner river. Population (1901), 13,852. It is a busy centre of trade, with large exports of indigo and cotton. Cloths are also manufactured on handlooms. The car-festival of Narapuraswāmi, held in May, continues for ten days and is attended by many people from surrounding villages. The place is a station of the London Missionary Society, which possesses a fine hospital, and also of the Society for the Propagation of the Gospel.

Jammu Province.—Province in Kashmīr State. See Kashmīr AND Jammu State.

Jammu Town.—Capital of the Jammu province, Kashmir State, and the winter head-quarters of the Mahārājā, situated in 32° 44′ N. and 74° 55′ E., at an elevation of 1,200 feet above sca-level. Population (1901), 36,130. It lies high on the right bank of the river Tāwi, which flows in a narrow ravine to join the Chenāb. The town covers a space of about one square mile, densely packed with single-storeyed houses of round stones and mud with flat tops. In the upper portion are superior houses of brick, and in the Mandi stand the State offices and the palaces of the Mahārājā and his brother. The general effect of Jammu is striking; and from a distance the whitewashed temples, with their gilded pinnacles, suggest a splendour which is dispelled on nearer acquaintance. The most conspicuous of the temples is Raghunāthjī, but like all the other buildings in Jammu it is commonplace. The Dogrās have little taste in architecture, and are essentially economical and practical in their ideas of domestic comfort.

The railway, which runs to Siālkot, a distance of about 27 miles, starts from the left bank of the Tāwi. The river is spanned by a fine suspension bridge, and a good cart-road runs from the bridge as far as the Mandi. The other streets are narrow and irregular, and there is nothing of striking interest. Of late years the construction of waterworks, the opening of the cart-road to the Mandi, the suspension bridge over the Tāwi, and the railway extension from Siālkot have improved the conditions of life in Jammu; but there has been no marked response either in population or in prosperity.

In the palmy days of Rājā Ranjīt Deo, towards the latter part of the eighteenth century, it is stated that the population was 150,000. There is nothing in the geographical position of Jammu which makes for prosperity. It lies on the edge of the Mahārājā's territories, with an infertile hinterland. Rightly speaking, it should have been the emporium for Kashmīr commerce, but the construction of the Kohāla-Srinagar cart-road has taken trade away from the Jammu-Banihāl route. At present there are hopes of the development of coal-mines to the north, which might bring prosperity to the Dogrā capital; and the tailway projected from Jammu to Srīnagar would restore much business.

The town of Jammu was a considerable centre of industry in the time of the late Mahārājā of Kashmīr and lammu, Ranbīr Singh; but now it is merely the residence of the ruling family and of the officials of the State. The governor (Hākim-i-Ala) of the province with his revenue office, the Chief Judge, the Sub-Judge and two magistrates of the first class the Wazir i-Wazārat of the Jammu district, the Superintendent of police, Jammu province, the chief medical officer, and the heads of various departments all live in Jammu, together with the staff of their several offices. A large hall called the Ajaibghar was erected by the late Mahārājā for the accommodation of the present King-Emperor, when he visited Jammu as Prince of Wales in the year 1875. The Mandi Mubarak palaces and the palace of Raja Sir Amar Singh, situated on the Rāmnagar hill, towards the north of the town, are the chief attractions. The Central jail has a daily average of 268 prisoners, and costs about Rs. 20,000 per annum. The State high school is located in a large building, and is doing fairly efficient work. contains about 800 pupils. A college to be named after the Prince of Wales is shortly to be opened. A State hospital is maintained, costing annually Rs. 14,800. Great improvements have been made in the dramage system of the town, which is managed by a municipal committee, and more improvements in this respect are under contem-

Jāmnagar. - Native State and town in Kāthiāwār, Bombay. See NAVANAGAR.

Jāmner Tāluka.—Tāluka of East Khāndesh District, Bombay, lying between 20° 33' and 20° 55' N. and 75° 32' and 76° 1' E., with an area of 527 square miles. It contains two towns, Jāmner (population, 6,457), the head-quarters, and Shendurni (6,423); and 155 villages. The population in 1901 was 91,739, compared with 87,230 in 1891. The average density, 174 persons per square mile, is above the District average. The demand for land revenue in 1903-4 was 2.4 lakhs, and for cesses Rs. 17,000. Most of the tāluka consists of a succession of rises and dips, with streams the banks of which are

fringed with babūl groves. In the north and south-east low straggling hills covered with young teak rise out of the plain. There is a plentiful and constant supply of water. On the whole, the climate is healthy, but at the close of the rains fever and ague prevail. The chief streams are the Vāghur, with its tributaries the Kāg and Sur, the Harki and Sonij. Most of these streams rise in the Sātmāla hills. There are also 1,950 wells. Generally speaking, the soil is poor. There is black loam in the valleys, and on the plateaux a rich brownish mould called kālī munjal.

Jāmner Town.—Head-quarters of the tāluka of the same name in East Khāndesh District, Bombay, situated in 20° 49′ N. and 75° 47′ E., on the small river Kāg, 60 miles east-by-south of Dhulia. Population (1901), 6,457. Jāmner was a place of consequence in the times of the Peshwās. Its prosperity has recently shown signs of revival, owing to its rising cotton trade and ginning industry. The town has three cotton-ginning and pressing factories, a dispensary, and two schools, attended by nearly 200 boys.

Jamnia.—Bhumiat in the BHOPAWAR AGENCY, Central India.

Jamnotri.—Temple in the State of Tehri, United Provinces, situated in 31° 1′ N. and 78° 28′ E. It stands on the western flank of the great peak of Bandarpünch (30,731 feet), at an elevation of about 10,800 feet above the sea and 4 miles below the glacier from which the Jumna issues. The temple is a small wooden structure, containing an image of the goddess Jumna. Close by are a number of hot springs from which water issues at a temperature of 194.7° F. Many pilgrims visit this sacred place every summer.

Jāmpur Tahsil.—Tahsil of Dera Ghāzi Khān District, l'unjab, lying between 29° 16' and 29° 46' N. and 70° 4' and 70° 43' E., with an area of 895 square miles. It is bounded by the Indus on the east, and by independent territory on the west. The riverain lowlands are subject to inundation from the Indus, and are also irrigated by inundation canals and wells. The hilly portion of the tahsil includes the Māri peak (5,385 feet above the sea). The rest of the tahsil consists of a sandy tract, the cultivation of which depends on irrigation from the Kahā torrent and on the very precarious rainfall. The population in 1901 was 97,247, compared with 83,583 in 1891. It contains the towns of Jāmpur (population, 5,928), the head-quarters, and Dājal (6,213); and 149 villages. Harrand is a place of some historical interest. The land revenue and cesses in 1903-4 amounted to 1.5 lakhs.

Jāmpur Town.—Head-quarters of the Jāmpur tahsīl of Dera Ghāzi Khān District, Punjab, situated in 29° 39' N. and 70° 39' E., 32 miles south of Dera Ghāzi Khān town. Population (1901), 5,928. There is a considerable export of indigo to Multān and Sukkur, and a good deal of

lac turnery is carried on. The municipality was created in 1873. The income and expenditure during the ten years ending 1902-3 averaged Rs. 10,100 and Rs. 9,600 respectively. In 1903-4 the income was Rs. 11,500, chiefly from octroi; and the expenditure was Rs. 12,500. The town has an Anglo-vernacular middle school, maintained by the

municipality, and a dispensary.

Jāmrao Canal.—A large and important water channel in the Hyderābād and the Thar and Pārkar Districts of Sind, Bombay. The canal takes off from the Nāra river in the north-west corner of the Sanghar tāluka and joins the Nāra again in the extreme south of the Jamesābād tāluka, the total length of the area irrigated being about 130 miles with an average bread of 10 miles. The natural features vary. The upper reaches of the canal pass through the sandy jungle-clad hills along the Nāra river, which give place to an alluvial plain, overed, where formerly liable to be flooded from the Nāra, with thick jungle of kandi, babūd, and wild caper bushes, and are succeeded by the wide open plants sparsely dotted with vegetation which are the characteristic feature of the country. The length of the Jāmrao Canal is 117 miles, and, including all its branches and distributaries, 588 miles. This canal has one large branch, called the West Branch, 63 miles in length, and about 408 miles of minor channels.

The canal was opened on November 24, 1899, and water for irrigation on a large scale was admitted in the following June. The cost of the work was about 84.6 lakhs and the gross revenue of 1903-4 amounted to 6% lakhs, which gives a net revenue of 4.3 lakhs or 5.1 per cent. on capital outlay to the end of the year. The area irrigated in 1903-4 was 4.1 square miles. Large areas were available for colonization in the centre of the tract adjoining the canal to which water had never before penetrated, and over which no rights had been previously acquired. To these lands, colonists have recently been drawn from the Punjab, Cutch, Jodhpur, Jaisalmer, Kohistān, and the Desert. The area so far allotted to colonists, on the model of the Chenau Colony in the Punjab, amounted in 1904 to 116 square miles.

Jamrūd. Fort and cantonment just beyond the border of Peshāwat District, North-West Frontier Province, situated in 34° 6′ N. and 71° 25′ E., at the mouth of the Khyber Pass, 10½ miles west of Peshāwar. Population (1901), 1,848. Jamrūd was first fortified in 1836 by Hari Singh, the Sikh governor of Peshāwar. It is now the head-quarters of the Khyber Rifles, and is the collecting station for the Khyber tolls, and contains a considerable sarai. A large mobilization camping-ground has been selected, 3 miles on the Peshāwar side of Jamrūd, and arrangements have been made for supplying water to it from the Bārā water-works. Jamrūd is connected with Peshāwar by a branch of the North-Western Railway.

Jāmtāra Subdivision.—South-western subdivision of the Santāl Parganas District, Bengal, lying between 23° 48′ and 24° 10′ N. and 86° 30′ and 87° 18′ E., with an area of 698 square miles. The subdivision, which is bounded on the south by the Barākar and is intersected by the Ajay river, is a rolling country, in places rocky and covered with jungle, and resembles in its general features the adjoining District of Mānbhūm. The population in 1901 was 189,799, compared with 173,726 in 1891, the density being 272 persons per square mile. It contains 1,073 villages, of which Jāmtāra is the head-quarters; but no town.

Jāmtāra Village.—Head-quarters of the subdivision of the same name in the Santāl Parganas District, Bengal, situated in 23° 58' N. and 86° 50' E. Population (1901), 278.

Jamu.—Province and town in Kashmīr State. See Kashmīr and Jammu Town.

Jamūi Subdivision.—Southern subdivision of Monghyr District, Bengal, lying between 24° 22′ and 25° 7′ N. and 85° 49′ and 86° 37′ E., with an area of 1,276 square miles. The population in 1901 was 551,227, compared with 553,917 in 1891. At the time of the Census it comprised an area of 1,593 square miles, but the Sheikhpurā thāna was subsequently transferred to the Monghyr subdivision. The population of the subdivision as now constituted is 374,998. It contains 499 villages, of which Jamūī is its head-quarters. The subdivision, which in the south merges in the Chotā Nāgpur plateau, contains large areas of jungle, and supports only 294 persons to the square mile, being the least densely populated part of the District. Jamūī is an important centre of trade. Gīdhaur and Khaira are the present seats of the two senior branches of the Gīdhaur family.

Jamüi Village.—Head-quarters of the subdivision of the same name in Monghyr District, Bengal, situated in 24° 55′ N. and 86° 13′ E., on the left bank of the river Kiul, 4 miles south-west of the Jamüi station on the East Indian Railway, with which it is connected by a metalled road. Population (1901), 4,744. It contains the usual public offices, a munsifi, a sub-jail with accommodation for 51 prisoners, and a higher-class English school. Mahuā flowers (Bassia latifolia) and oil, ghī, shellac, oilseeds, grain, and gur are exported, and cotton, tobacco, piece-goods, and metal vessels are imported. Trade is carried on by rail and by pack-bullocks. To the south of the village are the remains of an old fort, known as Indpeyarh.

Jamunā (1).—River of Eastern Bengal and Assam, probably representing one of the old channels of the Tista. It rises in Dinājpur District, not far from the boundary of Rangpur (25° 38' N. and 88° 54' E.), and, flowing due south along the border of Bogra, finally falls into the Atrai, itself a tributary of the Ganges, near the village of Bhawānīpur

in Rājshāhi District (24° 38' N. and 88° 57' E.), after a total length of 89 miles. In the lower part of its course the Jamunā is navigated all the year round by country boats of considerable burden, but higher up it is navigable only during the rainy season. The chief river marts on the banks of the Jamunā are Phulbāri and Birāmpur in Dinājpur District, and Hill in Bogra, just beyond the Dinājpur boundary.

Jamunā (2).—Deltaic distributary of the Ganges in Bengal, or rather the name given to a part of the waters of the Ichāmatī during a section of its course. The Jamunā enters the Twenty-four Parganas at Bāliāni from Jessore District; and after a south-easterly route through the Twenty-four Parganas and Nadiā Districts winds amid the forests and jungles of the Sundarbans, until it empties itself into the Raimangal, at a short distance from the point where the estuary debouches in the Bay of Bengal, in 21° 47′ N. and 89° 13′ E. The Jamunā is a deep river and navigable throughout the year by trading boats of the largest size, and its breadth varies from 150 to 300 or 400 yards. The Bhāngar line of the Calcutta and Eastern Canals strikes this river at Husainabād.

Jamuna (2) (or Jana).—Name given to the lower section of the BRAHMAPUTRA, in Eastern Bengal and Assam, from its entrance into Bengal in 25° 24' N. and 89° 41' E., to its confluence with the Ganges in 23° 50' N. and 89° 45' E. Its course is almost due south, extending approximately for a length of 121 miles. This channel is of comparatively recent formation. When Major Rennell compiled his no of Bengal towards the close of the eighteenth century, the main stream of the Brahmaputra flowed in a south-easterly direction across the District of Mymensingh, past the civil station of Nasīrābād. to join the Mcglma just below Bhairab Bazar. Some thirty years later, at the time of Buchanan Hamilton's survey, this channel had already become of secondary importance, and at the present time, though it still bears the name of Brahmaputra, it has dwindled to a mere watercourse, navigable only during the rainy season. Jamuna is now the main stream, and it extends from near Ghoramara in Rangpur District to the river mart of GOALUNDO in Faridpur, situated at the junction with the main stream of the Ganges. Along the left or east bank stretches the District of Mymensingh, and on the right or west bank lie Rangpur, Bogra, and Pābna, all in the Rājshāhi Division. Although a modern creation, the Jamunā thus serves as an important administrative boundary. In the portion of its course which fringes Bogra District, it is locally known as the Daokobā or 'hatchet-cut,' perhaps to distinguish it from the Jamunā (1) in that District. It runs through a low-lying country, formed out of its own loose alluvial sands, which afford the most favourable soil for jute cultivation. At some points its channel swells during the rainy season to a breadth of four or five miles, broken by frequent chars or sandbanks, which form, are washed away, and re-form year after year, according to the varying incidence of the current. The chief river mart on the Jamunā is Sirājganj in Pābna District. The Jamunā is navigable throughout its entire length, at all seasons of the year, by native crast of the largest burden, and also by the river steamers that ply to Assam.

Jandiāla.—Town in the Phillaur tahsil of Jullundur District, Punjab, situated in 31° 34′ N. and 75° 37′ E. Population (1901), 6,620. It ceased to be a municipality in 1872.

Jandiāla Gurū.—Town in the District and tahsīl of Amritsar, Punjab, situated in 31° 34′ N. and 75° 2′ E., on the North-Western Railway, and on the grand trunk road, 11 miles east of Amritsar city. Population (1901), 7,750. The proprietary body are Jats, but there is a large mercantile community of Bhābras, who by religion are Jains. There is a considerable manufacture of blankets and brass vessels. The municipality was created in 1867. The income during the ten years ending 1902-3 averaged Rs. 8,200, and the expenditure Rs. 8,100. In 1903-4 the income was Rs. 8,400, chiefly derived from octroi; and the expenditure was Rs. 9,800. The town possesses an Anglo-vernacular middle school, maintained by the District board, and mission hospitals for men and women.

Jandola (Jandula).—A Bhittanni village on the right-hand bank of the Tank Zam stream, on the borders of the Mahsüd territory in the Southern Wazīristān Political Agency, North-West Frontier Province, situated in 32° 20′ N. and 70° 9′ E. A fortified post close to the village is garrisoned by two companies of regulars and 25 cavalry, besides the Bhittanni levies.

Jangaon.—Tāluk in Adilābād District, Hyderābād State, situated midway between the Sirpur and Lakhsetipet tāluks and consisting of villages recently taken from those two tāluks. Its head-quarters are at Jangaon (population, 2,052).

Jangipur Subdivision.—Northern subdivision of Murshidābād District, Bengal, lying between 24° 19′ and 24° 52′ N. and 87° 49′ and 88° 21′ E., with an area of 509 square miles. The subdivision is divided into two parts by the Bhāgīrathi, the land to the west of that river being high and undulating, and that to the east a fertile alluvial tract liable to floods. The population in 1901 was 334,191, compared with 317,179 in 1891, the density being 657 persons per square mile. It contains one town, Jangipur (population, 10,921), its head-quarters; and 1,093 villages.

Jangipur Town.—Head-quarters of the subdivision of the same name in Murshidābād District, Bengal, situated in 24° 28' N. and

88° 4' E., on the Bhagirathi. Population (1901), 10,921. The town, which is said to have been founded by the emperor Jahangir, was during the early years of British rule an important centre of the silk trade and the site of one of the Company's Commercial Residencies. There are still extensive filatures in the neighbourhood. Situated near the mouth of the Bhāgirathi, it is the chief toll station for boats passing along that river. It was constituted a municipality in 1860. The income during the decade ending 1001-2 averaged Rs. 11.000, and the expenditure Rs. 10.000. In 1003-4 the income was Rs. 14.000. including Rs. 4.000 obtained from tolls and ferries, and Rs. 2.000 derived from a tax on persons (or property tax): and the expenditure was Rs. 13,000. The town with the courts and offices originally stood on the left bank of the Bhagirathi; but, owing to the shifting of the river, the subdivisional offices have been moved to its right bank. that portion of the town being known as Raghunāthgani. The subiail has accommodation for 26 prisoners.

fanigir. - Eastern tahsil of Bilaspur District, Central Provinces, lying between zin 37' and zzn 50' N, and 82° 19' and 83° 40' E. In 1901 its area was 1,467 square miles, and the population was 285,236. On the formation of the new Drug District, the constitution of the tahsil was considerably altered. A tract lying south of the Mahanadi, containing the Bilaigarh, Katgi, and Bhatgaon zamindüris, with the Sonakhan estate, and the Sarsewa group of villages, was transferred to the Baloda Bazar tuhsil of Rainur District, while the three northern zamindāris of Korbā, Chhuri, and Uprorā were transferred from the Bilaspur tahsil to lanigir. On the transfer of Sambalour District to Bengal, the Chandarpur Padampur and Malkhurda estates of that District were added to this tahsil. The revised figures of area and population for the Jangar tahail are 3.039 square miles and 418,200 persons. The population of this area in 1891 was 451,024. The density is 138 persons per square mile. The tabsil contains 1.111 villages. The head-quarters are at Janigir, a village of 2,257 inhabitants, adjoining Naila station on the railway, 26 miles east of Bilaspur town. The tahsil has only four square miles of Government forest. It includes the zamindari estates of Champa, Korba, Chhuri, and Uprora, with a total area of 1,748 square miles, of which 746 are tree and scrub forest, and a population of 112,680 persons. The land revenue demand in 1902-1 on the area now constituting the tahsil was approximately 1-42 lakhs. The old area of the tahsil is almost wholly an open plain, covered with yellow clay soil and closely cropped with rice, while the northern zamindāris consist principally of densely forested hills and plateaux.

Janji.—River in Sibsägar District, Eastern Bengal and Assam. See JHANZI.

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Janjīra State (or Habsān, 'the African's land').—State within the Political Agency of Kolāba, in the Konkan, Bombay, lying between 18° and 18° 31' N. and 72° 53' and 73° 17' E. The State is bounded on the north by the Kundalika or Roha creek in Kolāba District; on the east by the Roha and Māngaon tālukas of the same District; on the south by the Bānkot creek in Ratnāgiri District; and on the west by the Arabian Sea. About the middle of the coast-line, 40 miles long, the Rājpuri Gulf divides Janjīra into two main portions, northern and southern. The area is 324 square miles, excluding Jāfarābād in Kāthiāwār, which is also subject to the chief. The name Janjīra is a corruption of the Arabic jazīra, 'an island.'

The surface of the State of Janjīra is covered with spurs and hill ranges, averaging about 1,000 feet in height, and generally running parallel to the arms of the sea that penetrate eastwards into the interior. The sides of the hills are thickly wooded, except where cleared for cultivation.

Physical aspects.

Inland from the coast rise ranges of wooded hills. Near the mouths of the creeks belts of palm groves from 1 to 2 miles broad fringe the shore. Behind the palm groves lie salt marshes and mangrove bushes; behind these again, the rice lands of the valleys. The wealthiest and largest villages, inhabited by skilful gardeners, wellto-do fishermen, and palm-tappers, nestle in the palm-belt along the coast. Inland, the banks of the creeks are studded with hamlets. occupied by husbandmen who cultivate rice. On the hill-sides, in glens or on terraces, are the huts and scanty clearings of Kāthkaris and other hillmen. The slopes of the lower hills are generally rounded and passable by a pony. These slopes, except in the rains, are bare; but at most times, and particularly at high tide, the Rajpuri creek affords fine views of wooded hill and winding water. In former times travel was nearly impossible during the rains; but since the accession of the present Nawab in 1884, roads have been constructed affording considerable facilities for travel even in the rainy season. On the coast the sand-bars at the mouth of every inlet but the Raipuri creek prevent ingress. Farther inland, the low rice lands become covered with deposited mud, the main streams are flooded too deeply to be forded, and overgrown forest tracts render difficult the passage from one hill range to another. None of the streams is more than 5 or 6 miles in length. The larger watercourses flow westward. During the rains they are torrents, but dwindle to mere rills at other seasons. The chief creeks and backwaters are, beginning from the north: the Māndla-Borlai, Nāndgaon, Murud, Rājpuri, l'anchaitan or Dive-Borlai, and Srivardhan. Most of the creek entrances are rocky and dangerous. During the navigable season, September to June, they can be entered only by boats of under 11 tons burden.

Once over the bar, the creeks are mostly of uniform depth throughout their course. The mouth of the Rājpuri creek is 45 miles south of Bombay. The creek ends at the old town of Mhasla, 14 miles south-east of Janjīra town. At springs the tide rises 12 feet in the creek. There is no bar. The bottom is muddy. The least depth at low tide is $3\frac{1}{2}$ fathoms at the entrance of the creek, and $4\frac{1}{2}$ fathoms inside the entrance in the mid-channel. Steamers can enter, even during the rains, and lie in still water to the south of Janjīra island.

The rock is almost all trap, with, on the higher hill slopes, laterite or ironstone in large boulders. The hills are well wooded, teak being plentiful in the north. Tigers, leopards, hog, and wild cats are found in some parts. Venomous snakes are numerous.

The climate is moist and relaxing, but not unhealthy. The seabreeze cools the coast and hill-tops. Along the coast, fever and dysentery prevail from October to January. The heat on the coast ranges from 63° to 85° in January, from 70° to 94° in May, from 79° to 85° in July, and from 69° to 84° in November. Inland, where the sea-breeze does not penetrate, the thermometer ranges 7° or 8° higher. The annual rainfall averages 107 inches.

The origin of the ruling family is thus related. About the year 1489 an Abyssinian in the service of one of the Nizām Shāhi kings of Ahmad-

nagar, disguised as a merchant, obtained permis-History. sion from Ram Patel, the Koli captain, to land 100 boxes. Each of these boxes contained a soldier, and by this means the Abyssinians possessed themselves of Janura island and the fort of Danda Rājpuri. The island afterwards formed part of the dominions of the king of Bijapur. In the time of Sivajī the government of the Southern Konkan was held by the admiral of the Bijapur fleet, who was always an Abyssinian. In consequence of the inability of his master to succour him when attacked by Sivaji, the Sidi admiral offered his services, in 1670, to the Mughal emperor Aurangzeb. The most noticeable point in the history of Janjira is its successful resistance alone of all the States of Western India to the determined attacks of the Marathas, who made its capture a point of honour. After repeated attacks by Sivaji, its conquest was again attempted in 1682 by his son Sambhāji, who besieged the island, which he attempted to connect with the mainland by means of a mole. The project failed, and other attempted modes of attack were defeated with heavy loss. In 1733 the combined efforts of the Peshwa and Angria made little impression on Janjīra. The British, on succeeding the Marāthās as masters of the Konkan, refrained from interfering in the internal administration of the State.

The chief is a Sunnî Muhammadan, by race a Sīdī or Abyssinian,

with the title of Nawāb. He has a sanad guaranteeing succession according to Muhammadan law, and pays no tribute. As regards succession, the family does not necessarily follow the rule of primogeniture. Till 1868 the State enjoyed singular independence, there being no Political Agent, and no interference whatever in its internal affairs. About that year the maladministration of the chief, especially in matters of police and criminal justice, became flagrant; those branches of administration were in consequence taken out of his hands and vested in a Political Agent. The treaty which regulates the dealings of the British Government with the State is that of 1870. The Nawāb of Janjīra is entitled to a salute of 11 guns.

The population (exclusive of Jafarabad) at the last four enumerations was: (1872) 71,996, (1881) 76,361, (1891) 81,780, and (1901) 85,414. There are two towns, Murud (population, 3,553) and Population, SRIVARDHAN (5.061); and 284 villages. The density is 264 persons per square mile. About 82 per cent. are Hindus and 17 per cent. Musalmans. The castes of numerical importance are Agris (9,617), Kolis (7,326), Kunbīs (15,670), and Mahārs (7,242). Brāhmans (1.524) and Prabhus (1.771) constitute the higher castes. The Musalmans are chiefly Shaikhs (13,552), only 240 having returned themselves as Sidis in 1901. An interesting though numerically unimportant community are the Bani-Israil (566), who are a race of Jewish descent, worship one God, and have no images in their houses. They practise many Jewish rites. The dress and manner of living of the Bani-Israil, who are mostly oil-pressers by trade, are partly Muhammadan and partly Hindu. They speak Marāthī. Though fond of drink, they are steady, enterprising, and prosperous. The Sidis are the representatives of Ilabshi or Abyssinian slaves and soldiers of fortune, and are only found in the island of Janjīra. Many of them are related to the Nawab and inherit State grants and allowances. The term Sidi is considered to be a corruption of Saivid. The crews of the Bombay harbour boats, the steamships of the Peninsular and Oriental Company, and the smaller coasting steamers, are to a great extent recruited from Janifra.

Except the plots of rich alluvial rice land in the valleys and some sandy tracts near the coast, the usual red stony soil of the Konkan prevails throughout Janjira. Of the whole area, 42 square miles or 13 per cent. are arable, of which 41 square miles were cultivated in 1903-4. The principal crops are rice (38½ square miles), betel-nuts, and coco-nuts. Srīvardhan betel-nuts are known throughout the Bombay Presidency. In the strip of light sand bordering the coast coco-nut palms grow in great

¹ The Census of 1901 showed 234 villages. The present figure is based upon more recent information.

VOL. XIV.

perfection. For irrigation purposes, water sufficiently fresh is found everywhere by digging a few feet into the easily worked earth. It is drawn from wells by means of the Persian wheel, and from streams by a balance lift called *ukti*. In 1878 the British system of forest preservation was adopted. The forests are now strictly protected, and in 1903-4 yielded Rs. 40,700. Quarries of trap and laterite are occasionally worked. Small pearls are found in oysters fished up from the Rājpuri creek. The oyster is believed to be the *Placuna placenta*. Judging from the quantities of shells thrown up along the banks of the Rājpuri creek, the beds must be considerable.

Next to agriculture, which supports 70 per cent. of the total population, sca-fishing is the occupation of most of the people. The manu-

factures include the weaving of saris, coarse cloth, communications. turbans, and the making of coir rope, metal-work. furniture, stone-ware, and native shoes of an inferior The chief articles of import are grain (Rs. 60,000), cotton kind and woollen stuffs (Rs. 70,000), sugar and molasses (Rs. 56,000). salt (Rs. 10,000), ghi and oil (Rs. 77,000); the total value of imports being 4.1 lakhs. The export trade amounts to more than 2 lakhs. the chief articles being firewood (Rs. 83,000), supplied to Bombay, and betel nuts and coco-nuts (Rs. 63,000). External traffic is carried on almost entirely by water. In March, 1874, a regular steam communication was established between Bombay and Dasgaon on the Savitri river, touching at Janjing and Srivardhan. There are twelve ferries in the State. A ferry steamer plies between Bombay and Dharamtar, The chief made roads are from Murud to Borlai, 14 miles in length, and from Dighi to Savardhan, 10 miles. A State post formerly worked between Alibag and Bankot, but was abolished in 1880 when the British post office extended.

Famine. Famine. from bad seasons in 1875, 1878, 1879, and 1881. In 1899-1900 the crops in several villages failed on account of the scanty rainfall, and relief works were undertaken.

The administration of the State is in the hands of the Kārbhāri, under the orders of the Nawāb and subject to the supervision of the Political Agent. There are ten criminal courts (excluding three in the Jāfarābād dependency), with subordinate magisterial powers, and three civil courts in the State, two of which exercise appellate powers. The three civil courts are those of the Munsif, the Sar Nyāyādhish, and the Sadr Court. The Munsif disposes of sunts up to the value of Rs. 5,000. The Sar Nyāyādhish hears suits of greater value, exercises Small Cause Court powers up to a limit of Rs. 50, and also has appellate powers. The Sadr Court, which is presided over by the Nawāb himself, exercises the powers of a High

Court. The Kārbhāri has the powers of a Sessions Judge and District

Magistrate.

The revenue of the State exceeds 51 lakhs (inclusive of about Rs. 65.000 from Jāfarābād in Kāthiāwār), and is chiefly derived from land (24 lakhs), forests (Rs. 41,000), excise (Rs. 70,000), and salt and customs (Rs. 50,000). The expenditure is 5 lakhs (inclusive of Rs. 41.000 in Jafarabad), of which one lakh is brought to account as Darbar expenses and Rs. 50,000 as inam and charities or religious grants. Salt is purchased from the British Government, the annual sale of which amounts to 0.000 maunds. Opium is also purchased from the British Government. The excise system is the same as in the Alībāg tāluka of Kolāba District. Of the total excise revenue, the tree taxes yield Rs. 34,000 and the toddy spirit fee Rs. 20,000. Till it was closed in 1814, the Nawab's mint issued silver and copper coins. British coinage has now taken the place of the old currency. The total number of villages (including towns) is 286, of which 263 are unalienated and 23 alienated. The chief district revenue officer is in charge of the three fiscal divisions or mahals of Srivardhan, Murud. and Mhasla. The survey settlement was introduced in 1808-o. new rates have enhanced the assessment from 1.81 to 1.86 lakhs. The present rates for rice land vary from Rs. 6-7 to Rs. 9-9 per acre: for garden land from Rs. 6-10 to Rs. 15-11; and for varkas land from 3 to 4 annas.

There are two municipalities, besides that at Jāfarābād, one at Murud and the other at Srīvardhan, with an income in 1903-4 of Rs. 3,600 and Rs. 3,200 respectively. Local funds yield Rs. 15,000, consisting of a cess of one anna on each rupee of land revenue and of part of the income from cattle pounds. Exclusive of 13 irregulars in Jāfarābād, the military force consists of 30 infantry, 14 gunners, and 188 irregulars, in all 232. The total strength of the permanent police is 137, exclusive of 28 in Jāfarābād. The daily average number of prisoners in the State jail in 1903-4 was 11. There are also 3 lock-ups. Janjīra proper has (1903-4) 69 schools, including one English school with 130 pupils. The number of pupils attending these schools was 2,862, of whom 428 were girls. A hospital and 4 dispensaries treat about 30,000 persons annually. Jāfarābād contains 2 dispensaries, which treated 6,000 persons in 1903-4. Nearly 3,000 persons, or 36 per 1,000 of the population, are vaccinated annually.

Janjīra Village.—Capital of the State of Janjīra, Bombay, situated in 18° 18' N. and 73° E., 44 miles south of Bombay Island. Population (1901), 1,620. The fort of Janjīra, on an island at the entrance of the Rājpuri creek, lies half a mile from the mainland on the east, and a mile from the mainland on the west. Its walls rise abruptly from the water to a height of 50 feet, with battlements and loopholes.

In the bastions and on the walls are ten guns. In the fort a Muhammadan fair is held in November, attended by about 3,000 visitors. On Nānwell headland, about 2 miles west of the fort, a lighthouse shows a dioptric light of order 4, about 150 feet above sea-level. It serves to light the dangerous sunken reef known as the Chor Kāssa, situated about three-quarters of a mile from the headland.

Jansath Tahsil.— South-eastern tahsil of Muzasfarnagar District, United Provinces, lying between 29° 10' and 29° 36' N. and 77° 36' and 78° 6' E., with an area of 451 square miles. The population increased from 193,533 in 1891 to 216,411 in 1901. The tahsil contains four towns: namely, Khataulī (population, 8,695), Mīrānpur (7,209), Jansath (6,507), the tahsil head-quarters, and Bhūkarherī (6,316); and 244 villages. In 1903-4 the demand for land revenue was Rs. 3,60,000, and for cesses Rs. 47,000. The Ganges bounds the tahsil on the east, and the low land on the bank of the river is swampy; but the greater part lies on the upland and is protected by the Upper Ganges Main Canal and the Anūpshahr branch. In 1903-4 the area under cultivation was 307 square miles, of which 115 were irrigated.

Jānsath Town. - Head-quarters of the tahsīl of the same name in Muzassarnagar District, United Provinces, situated in 29° 19' N. and 77° 51' E., 14 miles from Muzassarnagar town. Population (1901), 6,507. The town is samous as the home of the Jānsath Saiyids, who held the chief power in the Delhi empire during the early part of the eighteenth century. Jānsath was sacked and destroyed by a Rohilla force, under the orders of the Wazīr Kamar-ud-dīn, in 1737, and many Saiyids were slain or exiled; but some of their descendants still live in the town. Jānsath is administered under Act XX of 1856, with an income of about Rs. 2,000. It contains a tahsīlī, an Anglo-vernacular school opened by private subscription, and a dispensary. Much has been done lately to improve the place by paving the streets and the drains.

Janwädä. – Töluk of Bidar District, Hyderabad State. See Karamungi Taluk.

Jaorá State. A treaty State, situated in the Mālwā Agency of Central India, with an area of 568 square miles, of which 128 have been alienated in land grants. The territories of the State are much split up, the main portion lying between 23° 30′ and 23° 55′ N. and 75° 0′ and 75° 30′ E. It is bounded by portions of the Indore, Gwalior, and Ratlām States of the Agency, the State of Partābgarh in Rājputāna, and the Thakurāt of Piplodā. It takes its name from Jaorā town, at which the head-quarters are situated. The whole State lies on the Mālwā highlands, and shares in the general conditions common to that region. There are only two rivers of importance, the Chambal and Siprā.

Ghafür Khan was an Afghan of the Tajik Khel, from Swat. His grandfather. Abdul Maild Khan, originally came to India in hones of making a fortune: and his two sons Abdul Hamid and Abdur Ras entered the service of Ghulam Kadir Khan, notorious for having blinded the aged emperor Shah Alam in 1788. On the execution of Chulam Kādir by Sindhia they settled in Rohilkhand. Ghafur Khān was the fourth and youngest son of Abdul Hamid. He married a daughter of Muhammad Avāz Khān, who held a high post at the Todbour court. Avaz Khan assisted the freebooter Amir Khan in settling the dispute between the chiefs of Jaipur and Jodhpur regarding the hand of the Udaipur princess Krishna Kunwari; and the friendship thus started led Avaz to give his younger daughter to Amir Khan, who then took Ghafur Khan into his service, and employed him as his confidential agent and representative at the court of Holkar, when absent on distant expeditions. After the battle of Mehidpur (Dec. 21, 1817). Holkar was forced to make terms, and signed the Treaty of Mandasor (see INDORE STATE), by the twelfth article of which it was agreed that Nawāh Ghafūr Khān should be confirmed in possession of Saniīt. Malhargarh, Tal, Jaora, and Barauda, and draw tribute from Piploda. The Nawab was at the same time required to furnish a quota of 500 horse and 500 foot and four guns for the assistance of the British Government, an obligation which was later on commuted for a cash payment. Amīr Khān protested against this clause, on the ground that Ghafur Khan was holding the districts as his agent; but the claim was not admitted.

In 1821 certain agreements were mediated between the Nawāb and the Malhārgarh Thākurs. The Malhārgarh Thākurs claimed to be tributary jūgirdārs, but it was held that they were merely guaranteed leaseholders, the tenure depending on the due observance of the terms of their holding; until 1890 they were a constant source of trouble to the Darbār.

In 1825 Ghafur Khān died, leaving an infant son, Ghaus Muhammad Khān (1825-65). He was placed on the masnad, nasarāna (succession dues) of 2 lakhs being paid to Holkar. The management of the State was left to the late Nawāb's widow, but after two years she was removed from the control for mismanagement. In 1842 Ghaus Muhammad Khān received administrative powers. In the same year a money payment of 1.6 lakhs was accepted in lieu of the troops required to be kept up under the treaty, and in return for good services during the Mutiny this was further reduced to 1.4 lakhs in 1859. Three years later a sanad was granted guaranteeing succession in accordance with Muhammadan law. Ghaus Muhammad died in 1865, leaving a son of eleven years of age, Muhammad Ismail Khān (1865-95), who was duly installed, the usual nazarāna of 2 lakhs being paid to Holkar. The Nawāb was placed in

charge of the State in 1874, but his administration was not a success. He incurred a debt of about 16 lakhs, and, in addition, borrowed 3 lakhs from Government. Muhammad Ismail died in 1895 and was succeeded by his son Istikhar Ali Khān, the present chief, then a boy of twelve, the management of the State being entrusted to the Nawāb's uncle, Yār Muhammad Khān, until 1906, when the chief received powers of administration. The young chief was educated at the Daly College at Indore, and in 1902 he joined the Imperial Cadet Corps. The present ruler bears the titles of His Highness and Fakhr-ud-daula Nawāb Saulat Jang, the second and last dignities being personal, and is entitled to a salute of 13 gups.

The population of the State was: (1881) 108,834, (1891) 117,650, and (1901) 84,202. In the latest year Hindus numbered 62,405, or 74 per cent. of the total; Musalmāns, 15,854, or 19 per cent.; Jains, 3,314, or 4 per cent.; and Animists, 2,585, or 3 per cent. (mostly Bhīls and Sondhiās). Of the Muhammadan population, 73 per cent. live in Jaorā town. The density of population is 148 persons per square mile, that for all Mālwā being only 116. There are two towns, JAORĀ (population, 23,854), the capital, and Tāl (4,954); and 337 villages. The population rose in the period ending 1891 by 8 per cent., but fell during the last decade by 29 per cent., chiefly on account of the famine of 1899 1900. The Rāngri or Mālwī dialect of Rājasthānī is spoken by 70 per cent. Besides the animistic tribes mentioned, the most numerous castes among Hindus are: Rājputs, 7,200; Chamārs, 5,500; Kunbīs, 5,000; and Bālais, 3,700. About 38 per cent. of the population are supported by agriculture, and 12 per cent. by general labour.

The soil of the State is among the richest in Mālwā, being mainly of the best black cotton variety, bearing excellent crops of poppy. Of the total area of 568 square miles, 274, or 48 per cent., are under cultivation, of which 24 square miles are irrigated. Of the uncultivated area, 94 square miles, or 17 per cent. of the total area, are capable of cultivation, the rest being waste. Of the cropped area, jouair and cotton each occupy 49 square miles, or 16 per cent; maize, 37 square miles, or 12 per cent.; poppy, 18 square miles, or 6 per cent. and wheat, 10 square miles, or 3 per cent.

The chief means of communication are the Nîmach Mhow high road and the Jaorā-Piplodā road, both metalled and kept up by Government; and the Rājputāna-Mālwā Railway and the Ratlām-Godhra-Baroda branch of the Bombay, Baroda, and Central India Railway, which joins the Rājputāna-Mālwā at Ratlām, and forms the shortest route to Bombay.

For administrative purposes the State is divided into seven tahsils (or districts)—Jaora, Barauda, Barkhera, Malhargarh, Nawabganj, Sanjit, and Tal Mandāwal—each under a tahsildār, who is collector of revenue and magistrate of the district.

The chief is the final authority in all general administrative and civil judicial matters. In criminal cases, however, he is required to submit all cases involving the penalty of death for confirmation by the Agent to the Governor-General. The judicial system was organized in 1885 on the model of British courts, and the punishments laid down in the British codes were introduced in place of the primitive pains and penalties which were then in force.

No revenue survey has as yet been made, and crops are appraised on the ground before the harvest. The incidence of land revenue demand is Rs. 3 per acre of cultivated land, and Rs. 1-8 per acre on the total area. Collections are made in cash, in three instalments.

The total revenue of the State amounts to 8.5 lakhs, of which 5.8 lakhs, or 68 per cent., is derived from land; Rs. 29,000, or 3 per cent., from opium; Rs. 25,000, or 3 per cent., from customs; and Rs. 14,000 from tribute. The chief heads of expenditure are: general administration, 1.2 lakhs; chief's establishment, Rs. 30,000; charges in respect of collection of land revenue, Rs. 62,600; police, Rs. 35,000; military, Rs. 34,000; public works, Rs. 31,000; tribute, Rs. 1,37,000.

A duty of Rs. 7 per maund is levied on raw opium, and of Rs. 2 on every 10 lb. of the manufactured article. Dues are also levied on every chest of 140 lb.: namely, on Jaora-grown opium, Rs. 30; on foreign opium, Rs. 13 when it comes from a distance of 50 miles or less, and Rs. 9 when it comes from more than 50 miles. About 1,000 chests pass annually through the Government scales maintained in Jaora town, at which the British Government levies an export duty on all opium passing through British India to the Chinese market. This duty amounts to about 5 lakhs a year.

Since 1805 the British rupee has been legal tender.

The State maintains 59 regular cavalry, 124 infantry, and 48 artillery with 16 guns, besides 36 irregulars. The police force was organized in 1892, and now includes 370 regular police and 332 rural police, giving 1 man to every 226 persons. A Central jail is maintained at Jaorā town.

An English school was started in 1866. In 1896 the Barr High School, teaching up to the University entrance standard, was opened. There are now ten other State schools, as well as several private institutions, which are supported by grants-in-aid. The cost of education is Rs. 5,000 a year.

Two hospitals are maintained in Jaora town, one for men and one for women, and five dispensaries in the districts.

Jaorā Town.—Capital of the State of the same name in Central India, situated in 23° 38' N. and 75° 8' E., about 1,600 feet above the level of the sea, with an area of 2½ square miles. Jaorā is on the Ajmer-Khandwā branch of the Rājputāna-Mālwā Railway, 432 miles

from Bombay. The village of Jaorā belonged originally to the Khatki Rājputs, but was taken by Ghafūr Khān as the site of his chief town. It is divided into twenty-six quarters, containing bazars for the sale of different articles. The public buildings include two hospitals, one for males and one for females, a guesthouse, a high school and two smaller educational institutions, a jail, a post and telegraph office, and several sarais. Population has increased regularly: (1881) 19,902, (1891) 21,844, (1901) 23,854. Hindus form 43 per cent. and Musalmāns 48 per cent. of the total. The town is watched by a police force of 41 constables.

Japvo. The highest mountain in Assam (9,890 feet), situated in 25° 36' N. and 94° 4' E., in the Assam Range a little to the south of

Kohimā (Nāgā Hills District).

Jasdan State.—State in the Kathiawar Political Agency, Bombay, lying between 21° 56' and 22° 17' N. and between 71° 8' and 71° 35' E., with an area of 283 square miles. The population in 1901 was 25,727, residing in 56 villages. The revenue in 1903-4 was Rs. 1,23,000, and 151 square miles were cultivated, of which 10 square miles were irrigaled. Jasdan ranks as a third-class State in Kāthiāwār. Jasdan town may derive its name from Swami Chashtana, one of the very earliest of the Kshatrapa dynasty. During the rule of the Ghoris of Junagarh. a strong fort was built there, and the town was called Ghorigarh. Later on it fell into the bands of the Khumans of Kherdi and was conquered from Jasa Khuman about 1665 by Vika Khachar, the grandson of Lakha Khāchar, the founder of the Lakhani branch of Kh. hars. In the time of Vajsur Khāchar, who was a powerful chief and established a pal or claim to blackmail over the surrounding country as far as Dhandhuka and Cambay, it was taken by Bhaunagar. Subsequently Jasdan was seized by the Jam of Navanagar, but he restored it to Vajsur Khāchar on the occasion of the marriage of Jām Vajsur Khāchar came to terms with the British and the Gaikwar in 1807-8. The State is now ruled by this family with the title of chief. They follow the rule of primogeniture.

Jasdan Town,—Chief town of the State of the same name in Kāthiāwār, Bombay, situated in 22°5′ N. and 71°20′ E., about 4 miles north east of Atkot, and 6 miles north of Kotra Pitha, both of which are on the Rājkot Bhaunagar high road. Population (1901), 4,628. Jasdan is a town of great antiquity, and possibly derives its name from Swāmi Chashtana, the second ruler of the Kshatrapa dynasty. During the rule of the Ghoris of Junāgarh a strong fort was built here, and the town was called Ghorigarh. A good road connects it with Vinchia. An agricultural bank has recently been opened in Jasdan for the benefit of the cultivating classes.

Jashpur.-Tributary State in the Central Provinces, lying between

22° 17' and 23° 15' N. and 83° 30' and 84° 24' E., with an area of 1,9481 square miles. Till 1905 it was included in the Chota Nagour States of Bengal. It is bounded on the north and west by the Surguia State; on the east by the Ranchi District of Rengal; and on the south by Gangpur, Udaipur, and Raigarh. Jashpur consists in almost equal proportions of highland and lowland. On the Ranchi side the magnificent table-land of Uparghāt attains an average elevation of 2,200 feet above the sea, and is fringed by hills which in places rise 1,000 feet higher. On the east the Uparghat blends with the plateau of Chota Nagnur proper: while on the west it springs from the lowland region known as the Hetghat in a scarped fortress-like wall, buttressed here and there by projecting masses of rock. The Uparghat again is divided by a slight depression from the still loftier plateau of Khuria, which occupies the north-western corner of the State, forming the watershed between the Ib and the Kanhar, a tributary of the river Son. This plateau consists of tran-rock topped with volcanic laterite, overlying the granite and gneiss which form the surface rocks at lower elevations. The lowlands of the Hetghat and of Jashpur proper lie in successive steps descending towards the south, broken by ranges of low hills, isolated bluffs, and bare masses of gneiss and other metamorphic rocks. The granite of this low region frequently rises into bare round knolls. the most conspicuous of which is called the Burha from its fancied resemblance to an old man's bald head. The principal peaks are RANTIULA (3,527 feet), KOTWAR (3,303 feet), and BHARAMURIO (3,300 The chief river is the Ib, which flows through the State from north to south. Several waterfalls are found along its course, the finest being formed by the rush of its waters over a square mass of trap-rock. where it passes from the high table land of the Uparghat into the flat country of Jashpur proper. Owing to numerous rapids, the river is not navigable below these falls. The smaller rivers of Jashpur are mere hill streams, all of which are fordable except at brief intervals during the rains. In the north these are feeders of the Kanhar, and flow towards the valley of the Ganges, while on the south they run into the Ib and contribute to the river system of Orissa. Gold is obtained in small quantities from the banks and bed of the Ib river, near the Gangpur border, by the Ihora Gonds, who wash the soil; they make over the gold to the Rājā and are paid by him in rice. Iron is procured in a nodular form in the hilly tracts, and is smelted by aboriginal tribes for export. The forests consist largely of sal (Shorea robusta), sissū (Dalbergia Sissoo), and ebony (Diospyros melanoxylon); but owing to their distance from the railway there is as yet little demand for the timber. Those near the Gängpur border have recently,

¹ This figure, which differs from the area shown in the Census Report of 1901, was supplied by the Surveyor-General.

however, been leased to a contractor. Besides timber, the chief jungle products are lac, tasar silk, and beeswax, all of which are exported, sabai grass (Ischaemum angustifolium), and a large number of edible roots and indigenous drugs. The jungles contain tigers, leonards, wolves, bears, buffaloes, bison, and many kinds of deer.

The State of Jashpur was ceded to the British Government by the provisional agreement concluded with Mudhoii Bhonsla in 1818. Although noticed in the second article of this agreement as a separate State. Jashpur was at first treated in some measure as a fief of Surguia. and the tribute, the amount of which was last fixed in 1899 at Rs. 1.250, is still paid through that State. The chief, however, is not bound to render any feudal service to Surguja. The population increased from 113.616 in 1801 to 132.114 in 1001. They dwell in 566 villages, and the density is 68 persons per square mile. large increase is due chiefly to the inducements held out to immigrants to settle in the State, where the area of cultivable waste is very large, The people have also benefited by the introduction of sugar-cane and wheat cultivation, and roads have been constructed from the capital to the borders of Ranchi, Surguia, Udaipur, and Gangpur. The most numerous castes and tribes are Oraons (47,000), Rautias (12,000). Korwas (10,000). Ahirs or Goalas and Nagesias (0,000 each), and Chiks and Kaurs (7,000 each). A rebellion of the Korwas gave considerable trouble some years ago. Pandrapat and the table-lands of the Khuriā plateau afford excellent pasturage; and Ahīrs or cowherds from Mirzāpur and elsewhere bring large herds of cattle to graze, the fees naid by them being a considerable source of income to the State. Many Ahirs have settled permanently in Khuria. The trade is confined to food-grains, oilseeds, and jungle products, and is carried on by means of pack-bullocks.

The relations of the chief with the British Government are regulated by a sanad granted in 1899, and reissued in 1905 with a few verbal changes due to the transfer of the State to the Central Provinces. Under this sanad the chief was formally recognized and permitted to administer his territory subject to prescribed conditions, and the tribute was fixed for a further period of twenty years, at the end of which it is liable to revision. The chief is under the general control of the Commissioner of Chhattisgarh as regards all important matters of administration, including the settlement and collection of land revenue, the imposition of taxes, the administration of justice, arrangements connected with excise, salt, and opium, and disputes in which other States are concerned; and he cannot levy import and export dues or transit duties, unless they are specially authorized by the Chief Commissioner. He is permitted to levy rents and certain other customary dues from his subjects, and is empowered to pass sentences

JASO 69

of imprisonment up to five years and of fine to the extent of Rs. 200; but sentences of imprisonment for more than two years and of fine exceeding Rs. 50 require the confirmation of the Commissioner. Heinous offences calling for heavier punishment are dealt with by the Political Agent, Chhattīsgarh Feudatories, who exercises the powers of a District Magistrate and Assistant Sessions Judge; the Commissioner occupies the position of a Sessions Court in respect of such cases, while the functions of a High Court are vested in the Chief Commissioner.

The revenue of the State from all sources in 1004-5 was Rs. 1.26,000, of which Rs. 50,000 was derived from land. Rs. 11.000 from excise, and Rs. 7.000 from forest. The expenditure in the same year was Rs. 1.05.000, including Rs. 22.000 spent on administration. Rs. 25,000 on domestic charges, and Rs. 6,000 on public works. The State maintains 100 miles of roads. The current revenue demand is Rs. 60,000 per annum, collected through lease-holders, called thekadars, with whom the villages are settled. The latter fix and collect the assessment payable by each cultivator in the village, and the amount is not changed during the term of the settlement. The thekadars have no rights beyond that period; but the lease is generally renewed with the old thekadar, and a son generally succeeds his father, though no hereditary rights are recognized. The State maintains a police force of 12 officers and 35 men, and there is also a body of village police who receive a monthly salary. There is a jail with accommodation for 102 prisoners at JASHPURNAGAR, where the State also maintains a dispensary at which 2,000 patients were treated in 1904-5. In the same year 6,000 persons were successfully vaccinated. In 1001 only 862 persons could read and write; but some new schools have been opened by the State since that time, and in 1904-5 there were 15 schools with an attendance of 300 pupils.

Jashpurnagar (or Jagdīspur).—Head-quarters of the Jashpur State, Central Provinces, situated in 22° 53′ N. and 84° 8′ E. Population (1901), 1,654. It contains the residence of the chief, a dispensary, and a jail.

Jaso (Jasso).—A petty sanad State in the Baghelkhand Political Charge of the Central India Agency, lying between 24° 20′ and 24° 34′ N. and 80° 28′ and 80° 40′ E., with an area of about 72 square miles. It is bounded on the north, east, and south by the Nāgod State, and on the west by the Ajaigarh State. The population in 1901 was 7,209. The jāgīrdār is a Bundelā Rājput descended from Chhatarsāl, founder of the Pannā State. On the death of Chhatarsāl the Jaso and Bāndhora jāgīrs were assigned to his fourth son Bhārtī Chand, who held under his brother Jagat Rāj, the chief of Jaitpur. Bhārtī Chand bequeathed Bāndhora to his eldest son Durjan Singh and Jaso to his second son Harī Singh. Durjan Singh was suc-

70 *JASO*

ceeded by his son Mednī Singh, who died childless, and Bāndhora was absorbed into Iaso. Early in the nineteenth century the jagir fell to All Bahadur of Banda, who assigned it to Gonal Singh, a rebel servant of the holder Chet Sing. Gonal Singh, however, espoused the cause of Murat Singh, Chet Singh's infant son. On the establishment of the British supremacy. Iaso was held to be subordinate to the Ajaigarh State, and was included in the Kotra barrana secured to the Ajaigarh chief by the sanad granted him in 1807. To this an objection was raised; and on reference to the British Government it was finally decided that the suzerainty of Ajaigarh had never been more than nominal, and a separate sanad was granted to Mūrat Singh in 1816 confirming him in independent possession of Iaso. Jagat Rāj Singh, the present chief, succeeded in 1888, but in 1800 withdrew from active participation in the management. His son Girwar Singh, who is a minor, is being educated at the Daly College at Indore, the State being under superintendence.

Jaso includes 60 villages and has a cultivated area of 29 square miles, or 40 per cent. of the total. The total revenue is Rs. 23,000, of which Rs. 21,000 is derived from land.

The capital, Jaso, is picturesquely situated in 24° 30′ N. and 80° 30′ E., on the banks of a fine lake. The name is said to be a contracted form of Jaseshvari-nagar, and the place was at various times known as Mahendri-nagar, Adharpuri, and Hardi-nagar. A small temple, a curious *lingum*, and several satī stones stand in the town, while numerous Jain and Hindu remains lie scattered round it. A vernacular school and a hospital are situated here.

A. Cunningham, Archaeological Survey Reports, vol. xxi, p. 99.]

Jasol.—Head-quarters of a jāgīr estate of the same name in the Mallāni district of the State of Jodhpur, Rājputāna, situated in 25° 49' N. and 72° 13' E., on the left bank of the Lūni river, 2 miles from Bālotra station on the Jodhpur Bikaner Railway. Population (1901), 2,543. The village, which is built partly on the slope of a hill, possesses a post office, a vernacular school, and a small hospital. The estate consists of 72 villages, and is held by a Thākur on payment of a tribute of Rs. 2,100 to the Jodhpur Darbār. About 5 miles to the north-west are the ruins of Kher, the old capital of Mallāni, while to the southwest are the remains of another important town, Nagar. As these places decayed, Jasol rose, and now contains the descendants of some of the earliest Rāthor settlers.

Jaspur.—Town in the Kāshīpur tahsīl of Nainī Tāl District, United Provinces, situated in 29° 17′ N. and 78° 50′ E. Population (1901), 6,480. The town is of modern growth and contains few brick houses. It is administered under Act XX of 1856, with an income of about Rs. 2,000. There is a considerable manufacture of cotton cloth

by Julahas (Muhammadan weavers), who reside here, and also some trade in sugar and timber.

Jaswantnagar.—Town in the District and tahsil of Etāwah, United Provinces, situated in 26° 53' N. and 78° 53' E., on the East Indian Railway. Population (1901), 5,405. The town is named after Jaswant Rai, a Kāyasth from Mainpurī, who settled here in 1715. A small Hindu temple west of the town was occupied on May 19, 1857, by mutineers of the 3rd Native Cavalry; during a bold attempt to dislodge them, the Joint-Magistrate was wounded in the face. The town was once a municipality, but is now administered under Act XX of 1856, with an income of about Rs. 1,800. There is a considerable trade in yarn, cattle, country produce, and English piece-goods, besides an export of ghī and of khārua cloth, which is largely manufactured. Ornamental brassware is also made here, articles for religious use by Hindus being chiefly produced. The town school has about 115 pupils, and there is a branch of the American Presbyterian Mission.

Jaswant Sägar.—A large artificial lake in Jodhpur State. See Lunt.

Jath State.—Native State in the Political Agency of Bijāpur, Bombay. See BIJĀPUR AGENCY.

Jath Town.—Chief town of the State of the same name, in Bombay, situated in 17° 3′ N. and 75° 16′ E., 92 miles south-east of Sātāra town, 95 miles north-east of Belgaum, and 150 miles south-east-by-south of Poona. Population (1901), 5,404. The town is administered as a municipality, with an income (1903-4) of Rs. 3,040.

Jāti.—Tāluka of Karāchi District, Sind, Bombay, lying between 23° 35' to 24° 38' N. and 68° 1' to 68° 48' E., with an area of 2,145 square miles. It contains 117 villages, but no town. The population in 1901 was 31,752, compared with 27,895 in 1891. The density is only 15 persons per square mile; and this is the most thinly populated tāluka in the District, owing to its barren and unproductive soil and the large tracts of kalar land and salt deposits which it contains. The land revenue and cesses in 1903–4 amounted to nearly a lakh. Mughalbhin is the head-quarters. The southern portion is a maze of tidal creeks, and farther inland there is a salt plain, while the north-eastern portion is chiefly cultivable waste. Irrigation depends upon four canals, which directly tap the Indus. The chief crops are rice, bājra, barley, tīl and other oilseeds.

Jātingā.—River of Assam, which rises near Hāflang in the North Cāchār hills, and flowing west and south falls into the Barāk. The hill section of the Assam-Bengal Railway has been taken up the valley of the Jātingā, the line running along the right bank of the river. In the plains the Jātingā passes near numerous tea gardens, and during the rainy season a small steamer goes up to Bālāchara near the foot

of the hills. The river is nowhere bridged, but is crossed by five ferries, and is largely used as a trade route. Barkhalā Bāzār, Bālāchara, and Dāmcharā railway station are the most important places on its banks. Its total length is 36 miles.

Jatinga Rāmesvara.—Hill, 3,469 feet high, situated in 14° 50′ N. and 76° 51′ E., in the Molakālmuru tāluk of Chitaldroog District, Mysore. It is one of the places where edicts of Asoka have been discovered, and consists of a long ridge, having towards the western end an ancient temple of Rāmesvara, the present building for which was creeted in 062.

Jatoi.—Village in the Alipur talsil of Muzaffargarh District, Punjab, situated in 29° 31′ N. and 70° 51′ E., 11 miles north-west of Alipur town. Population (1901), 4,748. Local tradition attributes its foundation to Mir Bajār Khān, in the days of the emperor Bābar. The Indus washed away the original town at the close of the last century, but it was shortly afterwards rebuilt on the present site. Jatoi was for some time subordinate to Bahāwalpur, but was annexed by Dīwān Sawan Mal. In the war against Mūlrāj, the Jatoi people threw off the Sikh rule, and rendered good service.

Jatpol.—A samasthan or tributary estate in the south of Mahbūbnagar District, Hyderābād State, consisting of 89 villages, with an area of 191 square miles, and a population (1901) of 31,613. The total revenue is 119 lakhs, and the tribute paid to the Nizāni is Rs. 73,537.

From inscriptions it appears that in 1243 Annapota Nāyadu took possession of the estate, and captured Pangal and other forts. His dominions extended on the east as far as Srisil, on the west to Kotta and Sugur, now belonging to the Wanparti samasthān, on the north to Devarkonda, and on the south they were bounded by the Kistna river. His descendants ruled for several centuries. In the last quarter of the eighteenth century Rājā Jagannāth Rao, having no male issue, adopted Lachma Rao, a scion of the Rao family of Pakhāl. In 1831 Lachma Rao obtained the Jatpol pargana from the Nizām on a fixed rental of Rs. 70,000. The present Rājā, Venkata Lachma Rao, who is a younger brother of the Rājā of Venkatagiri in the Madras Presidency, also succeeded by adoption. He has cleared off debts amounting to nearly 2 lakhs, with which the estate was encumbered. The Rājā resides at Kolhāpur (population, 2,204), though until eighty years ago Jatpol was the head-quarters.

Jaugada.—Ruined fort in Ganjām District, Madras, situated in 19° 33′ N. and 84° 50′ E., about 18 miles west of Ganjām town, on the north bank of the Rushikulya in the Berhampur tāluk, among the remains of what was once a large city surrounded by a wall. Towards the centre of the fort is a huge granite mass, on which are inscribed thirteen edicts of the Buddhist emperor Asoka (about 250 B.C.). They

are of special interest as being the only examples of these edicts in the Madras Presidency. Old pottery and tiles abound within the fort wall; numbers of copper coins have been found, some of which are assigned to the first century A.D.; and an old temple has been discovered buried under debris and earth.

Jaulna. — Tāluk and town in Aurangābād District, Hyderābād State.

See TALNA.

Jaunpur District.—North-western District of the Benares Division, United Provinces, lying between 25° 24' and 26° 12' N. and 82° 7' and 83° 5' E., with an area of 1,551 square miles. In shape it is an irregular triangle, with the southern boundary as base, and the eastern and western boundaries running up to a blunt apex in the north. The boundaries are formed—on the south by Allahābād, Mirzāpur, and Benares; on the east by Ghāzipur and Azamgarh; on the north by Sultānpur; and on the west by Sultānpur and Partābgarh. Jaunpur District forms part of the Gangetic plain, but is slightly irregular in contour, with a series of undulating slopes. This

contour, with a series of undulating slopes. This apparent diversity of surface is increased by the occurrence of lofty mounds often covered with

Physical aspects.

groves, which mark the sites of ruined or deserted towns, the relics of a forgotten race, or the demolished forts of the modern inhabitants. The entire area is very highly cultivated, and the village sites are small and scattered about at short intervals. While the country is well wooded, the trees are seldom planted together in groves. The District is divided into two unequal parts by the sinuous channel of the Gumti, a tributary of the Ganges, which flows past the capital city, and cuts off one-third of the area to the north-east. It is a considerable river and is crossed by a fine old stone bridge at Jaunpur, and by a railway bridge two miles lower down. The Gumti is liable to great and sudden floods. While its ordinary rise seldom exceeds 15 feet, it rose 23½ feet in fourteen days in September, 1871, and was 37 feet above its dry-season level. There are no streams of importance north of the GuntI; but it receives the Sai from the south, and a smaller affluent. called the Pili Nadi. The Barna divides Mirzapur from Jaunpur and has a small tributary, called the Basühi.

Jaunpur exposes nothing but Gangetic alluvium, in which kankar or calcareous limestone and saline efflorescences are the only minerals found.

The flora of the District does not differ from that of the Gangetic plain generally. The mango, mahuā, shīsham (Dalbergia Sissoo), various figs, and the babūl (Acacia arabica) are the commonest trees. A weed called rasnī or baisurai (Pluchea lanceolata), which grows in light soil, is of some hindrance to cultivation.

Owing to the density of the population and the absence of forests or

waste lands, wild animals are scarce, and include only a few wolves in the ravines of the Gumti and Sai, an occasional nilgai, and small animals. Geese, duck, and quail are the commonest wild-fowl, and fish are found abundantly in the rivers and small fills.

The climate of Jaunpur is moister, and the temperature more equable, than in most Districts of the United Provinces. In January the temperature ranges from about 50° to about 75°, and in May and June from 80° to 110°.

The annual rainfall averages 42 inches, the amount being almost the same in all parts of the District. While variations occur from year to year, extreme failures are very uncommon.

The carliest traditions connected with the District point to its occupation by aboriginal Bhars and Soeris. In the later Hindu period it

contained several places of importance, chief among History. which was ZAFARĀBAD, then known as Manaich. This place has recently been identified as the fort of Muni, captured by Mahmud of Ghazm in 1019. The rule of the Musalmans was not, however, established at that time, and towards the close of the eleventh century the District was included in the new Rathor kingdom When Muhammad Ghori commenced his victorious march against Jai Chand of Kanauj, the latter sent his vast treasures to the fort of Asni, which was also probably situated near Zafarabad, and after lai Chand's death in 1104 the Muhammadans penetrated through this place to Benares. The magnificent temples of the Rathor kings were plundered and overthrown, and although Hindu governors were recogn red, they paid allegiance to the king of Delhi. In 1321 Ghiyāsud-din Tughlak appointed his son, Zafar Khān, governor, and thirtyeight years later, in 1350, Firoz Shāh Tughlak founded the city of JAUNPUR. A eunuch, named Malik Sarwar, who had held important posts at the court of Delhi, was appointed Wazir in 1389 with the title of Khwāja-i-Jahān. A few years later, in 1304, the administration of all Hindustan, from Kanauj to Bihar, was placed in his charge, so that he might reduce the turbulence of the Hindus, and he assumed the title of Sultan-ush Shark, or 'king of the east.' The ambitious eunuch had hardly succeeded in his task when he declared his own independence, the revolt being rendered easier by Timur's invasion, which destroyed the last semblance of the authority of the kings of Delhi. Timur, on his departure from India, granted large jugirs to Khizr Khān, and Khwāja-i-Jahān materially strengthened his position by adopting Khizr Khān's nephew, Karanphūl, as his son and heir. The dynasty thus founded ruled at Jaunpur for nearly a century, and proved formidable rivals to the sovereigns of Delhi. Khwāja-i-Jahān died in 1399, and was succeeded by Karanphül under the title of Mubārak Shāh. An attempt was made by Ikbāl Khān, de facto ruler of Delhi,

to crush the rising power, but without success. Muhārak Shāh died in Mor and was succeeded by his brother, Ibrahim Shah, who, like his successors, was a builder of magnificent mosques and a patron of learning In 1407 Ihrahim achieved his desire and took Kanaui, Sambhal. and Baran (Bulandshahr). He was approaching Delhi when news came that Muzaffar Shah (I) of Guiarat had defeated Hoshang Shah of Mālwā, and had designs on Jaunpur. Ibrāhīm therefore withdrew. giving up his new acquisitions of Sambhal and Baran. By 1414. Khizr Khān acquired the supreme power at Delhi. Ibrāhīm was thus for a time free from danger in that quarter, and set out in 1427 to attack Kālpī, but was opposed by Mubārak Shāh, who had succeeded Khizr Khān in 1421. He made another unsuccessful attempt in 1432, and also invaded Bengal and other adjoining territory. Ibrahim died in 1440, and was succeeded by his son Mahmud, who was allowed by the king of Mālwā to attack Kālpī in 1444, in order to punish an impious governor. Mahmud attempted to retain this fief, but was compelled to resign it. He then sacked Chunar and laid waste Orissa, and in 1452 advanced to Delhi during the absence of Bahlol Lodi, who had ascended the throne a year earlier. Bahlol returned and Mahmud retired; but a few years later hostilities again broke out and continued till Mahmud's death in 1450. His eldest son, Muhammad Shah, was killed after a few months and was succeeded by another son called For some years Husain confined his incursions to Orissa, or to Bundelkhand and Baghelkhand; but at length he too undertook to invade Delhi, and lost his kingdom in the venture. The first expedition took place in 1473, and during the next few years fortune inclined now to one side and now to the other. In 1480, however. Husain was twice defeated in the Central Doah, and Jaunour fell. Husain maintained hostilities in various directions, and in 1487 recovered Jaunpur for a time, but was soon driven out again, and Bārbak Shāh, son of Bahlol, became governor. Bahlol died in 1480 and was succeeded by his son. Sikandar: Bārbak Shāh also claimed the throne, and was defeated, but restored to his governorship. Revolts continued, and Husain Shah made a final effort about 1406, but was repelled and died a few years later. When Ibrahim, last of the Lodis, was defeated and killed by Bābar at Pānīpat in 1526, Bahādur Khān, the governor of Bihar and Jaunpur, asserted his independence; but after the fall of Agra and Delhi, Babar sent his son Humayun eastward. The Mughal rule was not, however, firmly established, and the Pathans under Sher Shah and his successors governed the country for a time. On the revival of Mughal power, Jaunpur fell before Akbar's general in 1550, and remained in the Mughal empire till its break up, although rebellions took place soon after the capture of the city. At the reorganization of the empire in 1575 Allahābād became the capital of

VOL. XIV.

the province in which Jaunpur was included. Nothing worthy of note occurred in connexion with this District until 1722, when it passed to the Nawāb of Oudh. Some years later it was granted to Mansā Rām, founder of the Benares Estate; and it remained in the possession of his family, with the exception of the fort of Jaunpur, though the Bangash Nawāb of Farrukhābād nominated a governor about 1750, after deseating the Nawāb of Oudh. The District was ceded to the British in 1775, with the rest of the Province of Benares.

From that time nothing occurred which calls for notice till the date of the Mutiny. On June 5, 1857, news of the Benares revolt reached The seroys of the treasury guard at once mutinied and shot their own officers, as well as the Joint-Magistrate. They then marched off to Lucknow without molesting the other Europeans, who made good their escape to Benarcs. The District continued in a state of complete anarchy till the arrival of the Gurkha force from Azamgarh on Sep-The civil officials then returned to Jaunour, and the police stations were re-established; but the north and west of the District In November, owing to the active levies made remained in rebellion. by Mahdī Hasan, who styled himself Nāzim of launpur, most of the surrounding country was lost again. But in February, 1858, the rebels of the north and west were defeated and dispersed; and in May the last smouldering embers of disaffection were stifled by the repulse of the insurgent leader, Jurhi Singh, from Machhlishhahr at the hands of the people themselves.

The magnificent buildings of the Sharki kings at JAUNPUR, and the earlier buildings of ZAFARÁBAD, were partly constructed from the remains of Hindu temples, none of which has remained intact. A few inscriptions exist in them, and a copperplate grant of Gobind Chand, king of Kanauj, has been found in the District.

Jaunpur contains 7 towns and 3,152 villages. Population has varied. The numbers at the last four enumerations were as follows: (1872)

Population. 1,025,961, (1881) 1,209,663, (1891) 1,264,949, and (1901) 1,202,920. The enumeration of 1872 was probably imperfect: during the last decade the District suffered from a succession of bad seasons. There are five tahsils—Jaunpur, Mariāhū, Machhlishahr. Khutāhan, and Kirakat—each named from its head quarters except Khutāhan, which has its head-quarters at Shāh-ganj. The only municipality is Jaunpur City, the District capital. The table on the next page gives the chief statistics of population in 1901.

Hindus form nearly 91 per cent. of the total, and Musalmans 9 per cent. The density of population is high in all parts of the District. About 81 per cent. of the population speak Eastern Hindi and 15 per cent. Bihārī, the boundary between these languages passing through the north-east of the District.

The Hindu castes most largely represented are Chamārs (leatherworkers and labourers), 182,000; Ahīrs (graziers and agriculturists), 173,000; Brāhmans, 146,000; Rājputs, 101,000; Koirīs (cultivators), 49,000; and Kurmīs (agriculturists), 46,000. The aboriginal Bhars still number as many as 25,000. Among Musalmāns may be mentioned the Julāhās (weavers), 28,000; Shaikhs, 18,000; Pathāns, 13,000; and Behnās (cotton-carders), 11,000. Agriculture supports as many as 77 per cent. of the total population, and general labour less than 2 per cent. Rājputs own more than a third of the land, and Brāhmans, Saiyids, Shaikhs, and Baniās are also large landholders. High castes also hold as tenants a rather greater proportion than the low castes. The inhabitants of this District supply considerable numbers of emigrants to Assam, the Eastern Districts of Bengal, and the colonies.

| Taksil. | Area in square miles. | Towns. | Willage. | Population | Population per equare mile. | Percentage of variation in population be tween 1891 and 1901. | Number of persons able to read and |
|----------------|--------------------------|--------|----------|------------|--------------------------------|---|------------------------------------|
| Jaunpur, . | 280 | 2 | 711 | 269,131 | 961 | - 3.4 | 6,868 |
| Mariahū. | 321 | , T | 676 | 143,792 | 759 | - 3.8 | 5,049 |
| Machhlishahr. | 344 | 2 | 610 | 233,431 | 679 | - 4.6 | 5,494 |
| Khutahan . | 362 | ı K | 700 | 269,438 | 744 | — 6·1 | 7,542 |
| Kirākat | 244 | 1 | 455 | 187,128 | 767 | - 7.2 | 7,497 |
| District total | 1,551 | 7 | 3,152 | 1,202,920 | 776 | - 4.9 | 32,450 |

There were only 62 native Christians in the District in 1901. Of these, 47 belonged to the Anglican communion and 8 were Methodists. The Church Missionary Society opened a branch at Jaunpur city in 1833. There has been a Wesleyan Mission at Shāhgani since 1870, and a Zanāna Mission at Jaunpur since 1890.

The District being permanently settled, accurate details are not available as to the distribution of the various classes of soil. Generally speaking, light sandy soil is found near the banks of the rivers, especially the Sai and Gumtt. The sand gradually changes to a very fertile loam which, however, requires constant irrigation; and, lastly, clay is found remote from the rivers. The largest clay tracts in which the best rice can be grown are found in the north and the south-west. The District is very highly cultivated, and there are no extensive areas of waste land, except a few nisar plains in the Khutāhan tahsīl. The Gumtī and Sai frequently flood the low-lying land in their beds; but the loss is not serious, and the chief danger to agriculture is the liability of the spring crops to suffer from rust in a wet winter.

The usual tenures existing in the permanently settled tract of the

United Provinces are found, zamindāri mahāls being the commonest. The mahāls are, however, frequently complex: that is, a single mahāl, instead of forming a single village (mauza) or part of a mauza, includes several mauzas or parts of mauzas. There are a few talukdāri estates; but the talukdārs are here known as peshkashdārs, and the underproprietors as farotars. Most of these estates were originally grants for the maintenance of the Jaunpur garrison. The main agricultural statistics for 1903-4 are shown below, in square miles:—

| Taksil. | | _ _ | Total | Cultivated. | Irrigated | Cultivable waste |
|--------------|------|----------|-------|-------------|-----------|---------------------|
| faunpur . | | . | 280 | 192 | 125 | 29 |
| Mariahii . | | | 321 | 212 | 116 | 39 |
| Machhilshahr | | | 344 | 205 | 106 | 50 |
| Khutahan . | | . ' | 362 | 228 | 129 | 50 |
| Kirākat . | | . , | 244 | 161 | 95 | 27 |
| 1 | Tota | 1 ! | 1,551 | 99R | 571 | 195 |

The staples food-crops are barley, covering 303 square miles, or 28 per cent. of the net cultivated area, rice (251), peas and masūr (137), and maize (124). The Jaunpur variety of maize is especially noted throughout the Provinces. Gram, wheat, arhar, jowār, and the smaller millets are also largely grown. Sugar-cane is an extremely valuable crop, and was grown on 53 square miles in 1903-4, while hemp (san) covered 14 square miles. Oilseeds, indigo, poppy, and tobacco cover smaller areas.

When the District was first acquired in 1775 there were large areas of waste. Mr. Duncan, who carried out the permanent settlement. gave special facilities for breaking up waste, and also encouraged the growth of sugar-cane and introduced indigo, poppy, and potatoes. The result was a speedy increase in the cultivated area. During the last sixty years, however, the area under cultivation has increased by only 4 per cent., and the chief change recently has been the rise in the area double cropped. Indigo is declining rapidly, as in most parts of the Provinces; and the area sown is now only 5 square miles, or less than a quarter of what it was twenty years ago. Maize and rice are more largely grown than formerly in the autumn, and wheat in the spring harvest. In adverse seasons loans under the Agriculturists' Loans Act are taken, but advances under the Land Improvement Act are very rare. The total of loans from 1891 to 1900 amounted to only a lakh, of which Rs. 30,000 was advanced in 1896-7. Very small advances have been made since.

The cattle of the District are inferior, and the best animals are imported. A Government bull was once kept, and its services were eagerly sought for. The ponies are also of a poor stamp, but are

largely used as pack animals. Sheep and goats are of the ordinary type.

Out of 571 square miles irrigated in 1903-4, wells supplied 442 square miles, tanks or jhils 126, and other sources 3. The area irrigated from tanks or jhils is probably understated, as every pond is used for irrigating the late rice. Water is raised from wells in a leathern bucket by bullocks or men, except in the extreme north, where the spring-level is so high that a lever can be used. Excellent wells can be made without brick linings, which will last from one to ten years. The tanks are sometimes artificial, but are all of small size; the swing-basket worked by four or eight persons is usually employed to raise water from tanks and jhils.

Kankār or calcareous limestone is found in all the upland parts of the District, and is used for metalling roads and for making lime.

Sugar-refining is the most important industry in the District. A little coarse cotton cloth is made in many places for local use. The manufacture of indigo still continues, but on a very small scale since the introduction of synthetic indigo.

Jaunpur city is celebrated for the manufacture of scents, and also produces a little papier-mâché work.

The District being almost entirely devoted to agriculture, its trade is confined to raw materials and food-stuffs. Sugar, food-grains, scents, and oilseeds form the chief exports; and salt, piece-goods, metals, and spices are imported. Jaunpur city, Shāhganj, and Mungrā Bādshāhpur are the chief trade centres.

The loop-line of the Oudh and Rohilkhand Railway from Benares through Fyzābād to Lucknow traverses the District from south to north, while the main line of the same railway crosses the south west corner. A branch from Zafarābād to Phāphāmau on the Ganges is now under construction; which will give access to Allahābād. Shāhganj is connected with Azamgarh, and Jaunpur city with Ghāzīpur, by branches of the Bengal and North-Western Railway.

The District is well supplied with roads, the length of which is 586 miles. Of the total, 186 miles are metalled and are maintained by the Public Works department, but the cost of all but 45 miles is met from Local funds. An excellent system of metalled roads radiates from Jaunpur city to Allahābād, Fyzābād, Azamgarh, Benares, and Mirzāpur. Avenues of trees are maintained on 229 miles.

Jaunpur has usually escaped from famine, owing to the rarity of complete failure of the rains. No details are available for the famines of 1770 and 1783, but the pressure of high prices was felt in 1803-4. The disastrous seasons of 1837-8 and 1860-1 hardly affected this District, and even in 1868 the threatened famine was averted by heavy rain in September. The

famines of 1873-4 and 1877-8 also pressed very lightly. In 1896-7, however, the District suffered severely. Heavy rain had damaged the crops in 1894, and in the two following years the rainfall was deficient, so that the important late rice crop failed. Relief works were opened and advances were given for the construction of wells; but the first fall of rain in June, 1897, ended the famine.

The Collector is usually assisted by a member of the Indian Civil Administration. Service (when available), and by five Deputy-Collectors recruited in India. A tahsildar is stationed

at the head-quarters of each tahst/.

There are two District Munsifs, a Subordinate Judge, and a District Judge for civil work. The Court of Sessions hears the sessions cases of Basti District as well as those of Jaunpur Owing to the pressure on the soil, disputes about cultivation, proprietary rights, and irrigation are common, and sometimes lead to serious riots: but the worst kinds of crime, such as murder and dacoity, are not very prevalent. Female infanticide was found by Mr. Duncan to be rife in 1789, and on the passing of an Act for its repression in 1870 a large number of persons were proclaimed; but all have since been exempted, and the practice is believed to be extinct.

Though a Judge-Magistrate was placed in charge of an area corresponding to the present District as early as 1795, the revenue administration was not separated from that of Benares till 1818. From its acquisition in 1775 the District was in charge of the Rājā of Benares till 1788, when Mr. Duncan, the Resident, commenced a settlement hich was made permanent in 1795. Default in the payment of revenue, and the turbulence of the population of this part of the huge District of Benares, led to the formation of a Deputy-Collectorate of laumpur in 1818, which soon became a separate District. In 1820 a large tract of what is now Azamgath District was placed under the Collector of Jaunpur, but part of it was removed in 1823 and the rest in 1830. There have been a few other smaller changes. revenue demand fixed by Mr. Duncan on the present area amounted to 11-1 lakhs, rising to 11-3 lakhs. It has since increased to 12-5 lakhs. owing to the inclusion of land not previously assessed. The permanent settlement included no detailed record-of-rights and was not based on a survey; and maps and records were not prepared till between 1820 and 1841. In 1849 the rent payable by the farotars to the peshkashdars was for the first time determined and recorded. The whole of the records prepared in 1841 were destroyed in the Mutiny of 1857. and when order was restored an attempt was made to prepare them afresh. The new record was completed in 1867, but was soon found to be incorrect and inadequate. A fresh revision was, therefore, made between 1877 and 1886, based on a resurvey. The usual village papers are now prepared annually as in the rest of the Provinces. The incidence of land revenue is Rs. 1-4 per acre, varying from R. 1 to Rs. 2-2 in different parts of the District.

Collections on account of land revenue and revenue from all sources have been, in thousands of rupees:—

| | | 1880-t. | 1890-1. | 1900~1. | 1903-4. |
|-------------------------------|-----|---------|-----------------|----------------|----------------|
| Land revenue Total revenue | : : | 12,40 | 1 2,20 16,49 | 13,63 20,32 | 12,74 19,36 |

JAUNPUR CITY is the only municipality, but six towns are administered under Act XX of 1856. The District board manages local affairs outside the limits of these, and in 1903-4 had an income expenditure of 1-1 lakhs, chiefly derived from local rates. The expenditure included Rs. 60,000 on roads and buildings.

There are 17 police stations; and the District Superintendent of police has a force of 3 inspectors, 83 subordinate officers, and 350 constables, besides 163 municipal and town police, and 1,954 rural and road police. The District jail contained a daily average of 231 prisoners in 1903.

Jaunpur District takes a low position as regards the literacy of its population, of whom 2-7 per cent. (5-4 males and o-1 females) could read and write in 1901. Musalmäns are distinctly more advanced in this respect than Hindus, 4-2 per cent. being literate. The number of public schools rose from 148 with 5,546 pupils in 1880-1 to 164 with 7,320 pupils in 1900-1. In 1903-4 there were 199 such schools with 8,862 pupils, of whom 169 were girls, besides 114 private schools with 1,792 pupils. Only 1,623 pupils were in classes beyond the primary stage. Two of the public schools were managed by Government, and 138 by the District and municipal boards. Out of a total expenditure on education of Rs. 40,000, Local funds contributed Rs. 30,000 and fees Rs. 8,000.

There are 8 hospitals and dispensaries, with accommodation for 53 in-patients. In 1903 the number of cases treated was 75,000, including 400 in-patients, and 3,000 operations were performed. The total expenditure was Rs. 8,000, which was chiefly met from Local funds.

About 37,000 persons were successfully vaccinated in 1903-4, representing a proportion of 31 per 1,000 of population. Vaccination is compulsory only in the municipality of Jaunpur.

[District Gazetteer (1884, under revision); P. C. Wheeler, Report on Revision of Records in Jaunpur (1886); A. Führer, The Sharqi Architecture of Jaunpur (1889).]

Jaunpur Tahsil.-Head-quarters tahsil of Jaunpur District, United

Provinces, comprising the pargana of Haveli Jaunpur and tappas Saremau, Rāri, Zafarābād, Karyāt Dost, and Khaprahā, and lying between 25° 37′ and 25° 54′ N. and 82° 24′ and 82° 52′ E., with an area of 280 square miles. Population fell from 278,482 in 1891 to 269,131 in 1901. There are 711 villages and two towns, including Jaunpur City (population, 42,771), the District and tahsīl headquarters. The demand for land revenue in 1903–4 was Rs. 2,39,000, and for cesses Rs. 43,000. The density of population, 961 persons per square mile, is the highest in the District. The sinuous course of the Gumti winds through the centre of the tahsīl, while the Sai crosses the western portion and then forms the southern boundary. There is a considerable area of sandy soil, and ravines furrow the ground near the rivers. The area under cultivation in 1903–4 was 192 square miles, of which 125 were irrigated, almost entirely from wells.

Jaunpur City.—Head-quarters of the District and tahsil of the ame name, United Provinces, situated in 25° 45' N. and 82° 41' E., on the Oudh and Rohilkhand and Bengal and North-Western Railways, 515 miles by rail from Calcutta and 977 miles by rail from Bombay. It lies on the banks of the Gumtī river, and at the junction of metalled roads from Allahābād, Fyzābād, Azamgarh, Benares, and Mirzāpur. Population has been almost stationary for the past twenty years. The numbers at the last four enumerations were as follows: (1872) 35,003, (1881) 42,845, (1891) 42,815, and (1901) 42,771. In 1901 the population included 26,091 Hindus and 16,596 Musalmāns.

The origin of the name Jauppur, also known as Jawanpur, and occasionally as Jamanour, is uncertain. Hindus derive it from Jamadagni. a famous rishi, in whose honour a shrine has been raised, while Musalmans assert that the city takes its name from Ulugh Khan Juna. afterwards Muhammad Shāh (11) bin Tughlak of Delhi. Up to the fourteenth century the neighbouring town of ZAFARABAD was of greater importance; but ancient remains show that a town existed also on the present site of Jaunpur. A shrine sacred to Karar Bir, the giant demon slain by Rāma, king of Ajodhyā, still stands near the fort; and tradition says that the fort itself is on the site of a temple built by Bijai Chand of Kanauj in the twelfth century. In 1359 Firoz Shah Tughlak halted at Zafarābād on his way to Bengal, and was struck by the suitability of the neighbourhood for the foundation of a new city. which was at once commenced. Some years later Jaunpur became the head-quarters of a governor, and in 1394 a eunuch named Khwāja-i-Jahan received the appointment. He soon declared himself independent; and for nearly a century, as has been related in the history of JAUNPUR DISTRICT, his successors ruled a varying area, which sometimes extended from Bihār to Sambhal and Alīgarh (Koil), while

they even threatened Delhi. Jaunpur remained the seat of a governor till the reorganization of the empire by Akbar, who raised Allahābād to the position of a provincial capital. From that date Jaunpur declined in political importance, though it retained some of its former reputation as a centre of Muhammadan learning, which had gained for it the title of the Shīrāz of India. On the acquisition of the province of Benares in 1775, Jaunpur became British territory, and an Assistant was posted here subordinate to the Resident at Benares. A Judge-Magistrate was appointed in 1795, and in 1818 Jaunpur became the head-quarters of a Sub-Collector and shortly afterwards of a Collector.

The main portion of the city lies on the left bank of the Gumti. while some outlying quarters and the civil station are situated on the right bank. The river is crossed here by a magnificent stone bridge built by Munim Khan, governor under Akhar. In the city proper are situated the splendid monuments of the launpur kings, which form the finest specimens of Pathan architecture in Northern India. Very little remains of the earlier fort built by Fīroz Shāh. It was an irregular quadrangular building, overlooking the Gumti and surrounded by a stone wall built round an artificial earthen mound. The materials were largely obtained from temples. In 1850 the towers and most of the buildings in the fort were destroyed. A magnificent gateway, added in the sixteenth century, a small mosque built in 1376, and a spacious set of Turkish baths constructed by Ihrāhīm Shāh, are alone fairly complete. The earliest mosque is that known as the Atala Masjid, which was built by Ibrāhīm Shāh, and completed in 1408. It consists of a fine courtyard with double-storeyed cloisters on three sides, and the mosque itself on the west. The most striking feature is the magnificently decorated façade, 75 feet in height, with a breadth of nearly 55 feet at the base, which stands before the dome of the mosque and recalls the propylons of Egypt. It consists of a great arched gateway surmounted by a pierced screen, and forming a recess in a gigantic frame flanked by massive towers. Smaller gateways of similar construction stand on either side. The Atāla Masjid is said to occupy the site of a temple of Atala Devi which Firoz Shah attempted to appropriate, but which he was induced to leave on account of the threatening attitude of the people. The Darība Masjid, built by two of Ibrāhīm's nobles, has a domed hall and two wings, marked by a low façade of the peculiar Jaunpur type, but with little ornamentation. is said to have been built on the site of a temple of Bijai Chand of Kanauj. Only the great piers and beautiful central screen remain to show the magnificence of the Jhanjhri mosque, which was built by Ibrāhīm Shāh on the site of Jai Chand's temple at Muktāghāt, but was demolished by Sikandar Lodi. The Lal Darwaza mosque, erected by Bībī Rājī, the queen of Mahmūd Shāh, is smaller than the Atāla

Masjid, the propylon being only 49 feet high. The cloisters, which are of one story, are in a poor state of preservation. The Jama Masjid, or great mosque of Husain Shah, is believed to have been founded as early as 1428; but work on it was suspended for many years, and it was not completed till 1478. The mosque stands on a raised terrace. and its courtyard is surrounded on three sides by cloisters with aisles. the upper story of which was pulled down by Sikandar Lodi. There is a massive domed entrance gateway in each of these sides, which also suffered at the hands of the Lodi king, and the fourth is occupied by the mosque proper with its majestic facade 84 feet in height. This mosque is being gradually restored. Close to the northern gateway stands a small enclosure in which he the modest tombs of Husain Shah and some of his descendants: the tombs of the earlier rulers are situated on a platform in another part of the city. Many smaller mosques and tombs are to be seen, but no traces exist of the palaces and college which once graced Jaunour. The modern public buildings are few and unimportant: they include the usual courts and two dispensaries, one of which is maintained by the Zanāna Bible and Medical Mission.

Jaunpur has been a municipality since 1867. During the ten years ending 1901 the income and expenditure averaged Rs. 19,000 and Rs. 37,000 respectively. In 1903-4 the income was Rs. 58,000, chiefly derived from octroi (Rs. 39,000) and rents and fees (Rs. 11,000); and the expenditure was Rs. 57,000, including conservancy (Rs. 14,000). administration and collection (Rs. 10,000), and public safety (Rs. 11,000). The town is celebrated for the manufacture of perfumes from the flowers of the rose, jasmine, and screw-pine, and from the rost of the khaskhas grass (Andropogon muricata). Papier-māché articles, such as cigar-cases, book-covers, &c., are also made. The town was formerly noted for its paper manufacture, but this has died out. There is some trade in grain, and in the distribution of imported goods; but Jaunpur is not an important commercial centre. Two high schools and six of lower grade have a total attendance of 607 pupils. In addition to these, Arabic is taught at the Jama Masjid.

[A. Fuhrer, The Sharqi Architecture of Jaunpur (1889).]

Jaunsar-Bawar.—Name of a pargana which now forms the whole of the Chakrata tahsil in Dehra Dün District, United Provinces.

Javādi Hills. A detached group of hills, in Madras, lying between 12° 18' and 12° 54' N. and 78° 35' and 79° 11' E., and for the most part situated in the south-west corner of North Arcot District, though spurs run down into South Arcot and Salem. In North Arcot some of the peaks attain an elevation of over 3,000 feet. They are there separated from the Eastern Ghāts by the broad valley of the Pālār. This narrows in the neighbourhood of Ambūr, where the Javādis and

the Eastern Ghäts almost join, but it widens again as it leaves North Arcot and passes into Salem. The Javadis are made up of numerous small plateaux, which contain in North Arcot 110 hamlets, or clusters of buts inhabited by a Tamil-speaking hill tribe called Malaivalis. These neonle number nearly 10,000; and though they appear to be ethnologically of the same stock as the Tamils of the low country, their long isolation has led to divergencies in their ways, and they possess certain peculiar customs of their own. The climate of the hills is malarious at certain seasons, but does not merit the utter condemnation generally accorded it. Sours from the main range extend in a north-easterly direction as far as the town of Vellore, gradually declining in height as they approach the Pālār. One detached peak, Kailasagarh, 2,743 feet in height, is only 6 miles distant from Vellore, and the small bungalow upon its summit forms a pleasant retreat during the hot season. The Javadis used to be covered with fine forest, but this has been almost entirely destroyed. Much damage was done when the construction of the south-west line of the Madras Railway was in progress, enormous quantities of timber being at that time felled for sleepers. Careful conservation is now helping to remedy the recklessness of past years. Game is fairly abundant in these hills. Bison, sambar, spotted deer, leopards, and an occasional tiger are found in them. The lavadis are one of the only two tracts in the Presidency where the cultivation of the intoxicating gania (Cannabis sativa) is permitted under licence. A little coffee cultivation has been attempted on the South Arcot side, and the produce is sold in the local markets. There are relics of Hindu temples, with some inscriptions, at Kovilanür on the way from Patrakad to Komatiyur, and signs of former occupation by a civilized nation.

Jāvli.—Northern tāluku of Sātāra District, Bombay, lying between 17° 32' and 17° 59' N. and 73° 36' and 73° 59' E., with an area, including the petty subdivision (petha) of Malcolmpeth, of 423 square miles. It contains one town, Malcolmpeth or Mahābaleshwar (population, 5,299); and 249 villages. The population in 1901 was 65,587, compared with 70,744 in 1891. The density, 155 persons per square mile, is much below the District average. The demand for land revenue in 1903–4 was Rs. 91,000, and for cesses Rs. 8,000. Throughout the hot season the Western Ghāt hill tracts, which form a large part of the tāluka, are cool and breezy. Medha, the tāluka head-quarters, has an average rainfall of 81 inches annually, while Mahābaleshwar receives 292 inches.

Jāwad.—Town in the Mandasor district of Gwalior State, Central India, situated in 24° 36′ N. and 74° 52′ E., 1,410 feet above sea-level. Population (1901), 8,005. The town was founded about 500 years ago, and belonged originally to the chiefs of Mewär. In the time of Rānā

Sangram Singh and his successor Jagat Singh, the wall which now surrounds the town was erected. In 1818, during the Pindari War, Jaswant Rao Bhau, one of Sindhia's officers who then held Jawad, persisted in supporting the Pindari leaders Chitu and Fazil Khan. The place was, therefore, attacked and taken by General Brown in 1819. but was subsequently restored to Sindhia. In 1844 it was included in the districts assigned for the maintenance of the Gwalior Contingent, but was again made over to Sindhia in 1860. Jawad is a commercial centre of some importance, a considerable trade in grain and cloth being carried on. It was formerly noted for its dueing industry, the dve of the al (Morinda tinctoria) being used. Of late years, however, this trade has decayed owing to the introduction of European dyes. The town is still noted for its manufacture of bracelets, which are exported in large quantities to Raiputana. The town customs dues amount to Rs. 27,000 a year. A State post office, a flourishing school with 300 pupils, a police station, a dispensary, and a public works inspection bungalow are situated in the town. The Canadian Presbyterian Mission has an out-station here.

Jawadi.-Hill range in North Arcot District, Madras. See JAVADI. Jawala Mukhi.—Ancient site in the Dera Gopipur tahsil of Kangra District, Punjab, situated in 31° 52' N. and 76° 20' E., on the road from Kängra town to Nādaun, at the foot of a precipitous range of hills, which forms the northern limit of the Beas valley. Population (1901). Once a considerable and opulent town, as its ruins testify, it is now chiefly famous for the temple of the goddess Jawala Mukhi, 'she c' the flaming mouth,' which lies in the Beas valley and is built over some natural jets of combustible gas, believed to be a manifestation of the goddess Devi. Another legend avers that the flames proceed from the mouth of the demon Jalandhara, the Daitya king whom Siva overwhelmed with mountains, and who gives his name to the Jullandur Doab. The building is modern, with a gilt dome and pinnacles, and possesses a beautiful folding door of silver plates, presented by the Sikh Rājā, Kharak Singh. The interior of the temple consists of a square pit about 3 feet deep, with a pathway all round. In the middle the rock is slightly hollowed out about the principal fissure, and on applying a light the gas bursts into flame. The gas escapes at several other points from the crevices of the walls of the pit. It collects very slowly, and the attendant Brāhmans, when pilgrims are numerous, keep up the flames with gla. There is no idol of any kind, the flaming fissure being considered as the fiery mouth of the goddess, whose headless body is said to be in the temple of Bhawan. The income of the temple, which is considerable, belongs to the Bhojki priests. At one time the Katoch Rājās appear to have appropriated the whole or the greater part of the receipts; and under Muhammadan rule a poll-tax of one anna

was levied upon all pilgrims. The number of these in the course of the year is very great; and at the principal festival in September-October as many as 50,000 are said to congregate, many coming from great distances. Another festival of scarcely less importance takes place in March. Six hot mineral springs, impregnated with common salt and iodide of potassium, are found in the neighbourhood. A sarai erected by the Rājā of Patiāla is attached to the temple, and there are also eight dharmsālas or resthouses for travellers. The temple was slightly damaged by the earthquake of April 4, 1905. The municipality was abolished in 1885.

Jawasia. - Thakurāt in the Malwa Agency. Central India.

Jawhār.—State situated within the geographical limits of Thāna District, Bombay, between 19° 40′ and 20° 4′ N. and 73° 2′ and 73° 23′ E., with an area of 310 square miles. Jawhār State consists of two unequal patches of territory, the larger in the north-eastern part of Thāna District, and the smaller in the north-western. The Bombay, Baroda, and Central India Railway just touches the western boundary of the smaller patch.

Most of Jawhar is a plateau raised about 1,000 feet above the Konkan plain. Eastward the Western Ghats can be crossed by packbullocks through the Chinchutara and Gonde passes to the north, and through the Dhondmare and Shir passes to the south, of the high hill of Vatvad. The westerly route, about 38 miles from Jawhar to Dahanu Road on the Bombay, Baroda, and Central India Railway, crosses the Kasātwādi and Deng passes by a metalled road built by the Government in 1872-4. The road has recently been farther extended by the State eastwards to Kelghar. Towards the south and west the country is in some places level; but the rest of the territory is clevated, and consists of the rocky and forest-covered tract that everywhere lies at the western foot of the Ghāts. Though its many fertile valleys contain numerous streams, their waters are not used for irrigation. streams are the Deharii, the Surva, the Pinjali, and the Vagh. Except in the southern mahal of Malvada, the water-supply fails as the hot season advances. Between June and October the rainfall is heavy, the average for the year being 120 inches. From the close of the rainy season till the end of December the air retains a considerable degree of moisture. In January and February the dryness and heat increase. followed from March to June by a tolerably warm season. perature rises to 106° in May and falls to 66° in January. During the greater part of the year the climate is malarious and unhealthy.

Up to 1294, the period of the first Muhammadan invasion of the Deccan, Jawhār was held by a Vārli, not a Kolī, chief. The first Kolī chief, Paupera, otherwise known as Jayaba, obtained his footing in Jawhār by a device similar to that of Dido, when she asked for and received as much land as the hide of a bull would cover. The Kolī

chief cut his hide into strips, and thus enclosed the territory of the State. Javaha was succeeded by his son Nim Shah, on whom the king of Delhi conferred the title of Raia. So important was this event in the history of Jawhar that June 5, 1343, the day on which the title was received has been made the beginning of a new era, which is still used in public documents. The Ahmadābād Sultāns, who held the sea-coast of Thana, interfered but little with the inland portion of Jawhar: but with the Portuguese a continuous struggle was waged, which lasted until the decay of the latter, when the lawhar chief, aided by alliances with the Mughal generals, managed to plunder the Portuguese possessions in the North Konkan and extend his territory from Bassein to Dahanu. Subsequently the Marathas, who attacked the State on several occasions, deprived the chief of part of his territory and forced him to pay tribute. The succession to the chiefship follows the rule of primogeniture: a sanad granting the right of adoption on failure of natural heirs was granted in 1800. Except the nazarana, or succession fee in case of adoption, the Rājā pays no tribute to Government.

Since 1872 the population of the State has increased by 27 per cent. According to the Census of 1901, the population was 47,538, of whom 47,007 were Hindus and 471 Muhammadans, the density being 153 persons per square mile. The State contains 108 villages, the only important one being that from which the State takes its name, situated in 19° 56′ N. and 73° 16′ E., with 3,567 inhabitants. Jawhār village is healthy and fairly cool, standing 1,500 feet above sea-level. The only place of interest in the State is the ruined fort of Bhopatgarh, about 10 miles south-east of Jawhār village.

The soil, except in the level tracts, is stony and unsuited for the better class of crops. Of the total area, 69 square miles are under forest and 58 are uncultivable, 171 square miles are cultivable, and 159 were cropped in 1903-4. Besides timber, the country yields rice to a limited extent and the coarser grains abundantly. The State escaped the famine that affected the rest of the Presidency in 1899-1902, but it suffered rather severely from the depredations of locusts in 1903-4. The export trade consists of teak, rice, and nāgli. Good building stone is found.

Jawhār is under the political control of the Collector of Thāna. The chief decides Sessions cases and hears appeals, and has power to try his own subjects for capital offences. The land is held to belong to the State, but so long as the owner pays his rent he cannot be ousted. The land revenue formerly varied in different parts of the State, but the settlement, completed in 1887-8, has fixed rates per acre varying from 2½ annas to Rs. 5½. The revenue of the State in 1903-4 was about 1-7 lakhs, of which Rs. 50,000 accrued from land, Rs. 20,000 from excise, and Rs. 3,000 from forests. The expenditure amounted to

over one lakh. The State pays no tribute, and the levy of transit dues was abolished in 1881. Control over opium has been ceded to the British, to whom also the excise arrangements are farmed. No military force is maintained. The police number 45. The State possesses two schools, with an average daily attendance of 132 pupils. The State dispensary, opened in 1878, annually treats 3,000 patients. About 1,500 persons are annually vaccinated in the State.

Jaynagar Village.—Village in the Madhubani subdivision of Darbhangā District, Bengal, situated in 26° 35′ N. and 86° 9′ E., a few miles south of the Nepāl frontier, and a little east of the river Kamlā. Population (1901), 3,551. The village contains a mud fort attributed to Alā-ud-dīn, king of Bengal (1493–1518), and said to have been constructed to resist the incursions of the hill tribes. Near the fort is an encampment made by the British during the Nepāl War.

Jaynagar Town.—Town in the head-quarters subdivision of the District of the Twenty-four Parganas, Bengal, situated in 22° 11′ N. and 88° 25′ E., 31 miles south of Calcutta and 6½ miles by water from Magrā Hāt station on the Eastern Bengal State Railway. Population (1901), 8,810. Jaynagar was constituted a municipality in 1869. The average income and expenditure during the decade ending 1901-2 were Rs. 6,100. In 1903-4 the income was Rs. 7,600, mainly from a tax on persons (or property tax); and the expenditure was Rs. 7,300.

Jech Doab. - Doab in the Puniab. See CHAI DOAB.

Jedcherla.—Former tāluk in the north of Mahbūbnagar District, Hyderābād State, with an area of 946 square miles. The population in 1901, including jāgārs, was 96,886, compared with 96,106 in 1891. The land revenue in 1901 was Rs. 80,000. In 1905 the tāluk was divided between Mahbūbnagar, Pargi, and Kalvakurti. The jāgār tāluk of Changomal lies to the south, with a population of 12,480 and 22 villages, and an area of about 106 square miles. It has now been transferred to the Pargi tāluk.

Jehlam.—District, tahsil, river, and town in the Punjab. See JHELUM. Jejurl.—Town in the Purandhar tāluka of Poona District, Bombay, situated in 18° 16' N. and 74° 9' E., on the Southern Mahratta Railway. Population (1901), 2,871. It is a place of Hindu pilgrimage. The municipality was established in 1868, to take charge of the sanitary arrangements during the religious fairs to which the village owes its importance. The fairs are in honour of the god Khandoba. A pilgrim tax is levied for four months, from about December to April. The average income during the decade ending 1901 was Rs. 5,000. In 1903-4 the income was Rs. 4,700. The town contains a dispensary and a school, managed by the Poona Native Institution, with 182 boys and 9 girls.

Jelep La.—Pass in the Chola range of the Himālayas, situated in 27° 22' N. and 88° 53' E., leading from Sikkim State, Bengal, into the Chumbi valley of Tibet. Height, 14,390 feet above sea-level. The Jelep pass forms the principal route by which Tibetan trade enters British India, and carries about half of the total registered trade between India and Tibet.

Jellalabād.—Province and town in Afghānistān. See Jalālābād.

Jellasore.—Village in Balasore District, Bengal. See Jalēswar.

Jesar.—Petty State in Rewā Kāntha, Bombay.

Jessore District (Yasohara).—District of the Presidency Division, Bengal, lying between 22° 47′ and 23° 47′ N. and 88° 40′ and 89° 50′ E., with an area of 2,925 square miles. It is bounded on the north and west by Nadiā District; on the south by Khulnā; and on the east by the Madhumatī and Bārāsia rivers, which separate it from Farīdpur.

Jessore forms the central portion of the delta between the Hooghly and the Meghnā estuary, and is an alluvial plain intersected by rivers

and watercourses, which in parts of the south of the **Physical** District spread out into large marshes. The river Aspects. system was formerly supplied by the Padmā, and the rivers for the most part flowed across the District from the northwest to the south-east. The north-west of the District was gradually raised by their periodical inundations till their connexions with the Padmā silted up; and the rivers, with the sole exception of the Garai. which with its continuation the Madhumati is still an important offshoot of that river, ceased to be running streams, their beds degenerating into stagnant marshes during the greater part of the year. The District, entirely a fluvial formation, is thus naturally divided into two parts; the thickly populated country to the north, now raised by continual deposits beyond the reach of the inundations by which it was previously affected, declining towards the south into swampy tracts, where the rivers are tidal and the only parts suitable for habitation are the high lands along their banks. The principal rivers, which are connected with one another by numerous cross-channels, are the GARAI and the MADHUMATI to the east, and proceeding from north to south, the KUMÄR, Nabaganga, Chitra, Kabadak, BHAIRAB. and ICHAMATI. The last-mentioned rivers, which were originally distributaries of the Padma, have now largely silted up in their upper reaches, and are in many cases entirely cut off from their parent stream. The Kumār, a branch of the Mātābhānga, discharges into the Nabaganga at Magura; it is also connected with the Madhumati by the Little Bārāsia. The Nabagangā, also formerly an offshoot of the Mātābhānga, no longer gets any flood discharge from that river. and boat traffic is impracticable beyond Jhenida, while between Jhenida and Magura it is navigable only for about three months in the year.

The silting-up process has extended as far south as Binodour, below which it is navigable throughout the year. The Nabaganga formerly joined the Madhumati near Lohagara, but the connexion has silted up and its waters now flow down the Bankana; this river divides into two branches at Patna, the eastern branch which flows into the Madhumati being known as the Kālia or Gāngnī river, while the western branch continues to be called the Bankana. The Kabadak, formerly an offshoot of the Mātābhānga has silted up in its upper portion, but is navigable below Kotchandpur by large boats throughout the year. The Bhairab, which leaves the Kabadak on its left bank above Tähirpur, has similarly silted up in its upper reaches, the channel above lessore being practically only a line of marshes. The Maiudkhāli Khāl brings down some of the waters of the Chitra to the Bhairab at Simultala, and the Bhairab is also connected with the Chitra by the Gobra-Afra Khal. The Ichamati, which flows across the south-west corner of the District, is navigable in this part of its course throughout the year.

The District is covered by recent alluvial deposits, consisting of sandy clay and sand along the course of the rivers, and fine silt consolidating into clay in the flatter parts of the river plain, where beds of impure peat also occur. Sand is found in large quantities only along the banks and *chars* of the Madhumati.

The stretches of low-lying land under rice cultivation afford a foothold for various marsh species, while the numerous ponds and ditches are filled with submerged and floating water-plants. Remarkable among these for its rarity, and interesting on account of its distribution to Europe on the one hand and Australia on the other, is the floating Aldrovanda vesiculosa. The edges of sluggish creeks are lined with large sedges and bulrushes, and the banks of rivers have a hedge-like scrub jungle. The sides of embankments and village sites, where not occupied by habitations, are densely covered with shrubberies of semispontaneous species, interspersed with clumps of planted bamboos and groves of Areca, Moringa, Mangifera, and Anona. The babul (Acacia arabica) also grows in great abundance, and the banyan (Ficus indica), Mpal (Figus religiosa), tamarind (Tamarindus indica), and mulberry reach a large size. The north and east of the District are dotted with numerous groves of date-palms (Phoenix acaulis); and many of the principal roads are lined with fine avenues of banyans, casuarinas (Casuarina muricata), and mulberry-trees. Waysides and waste places are filled with grasses and weeds, usually of little intrinsic interest but often striking because of their distribution; many of them have been inadvertently introduced by human agency, and include European or African and American species. There are no forests in the District.

Leopards were formerly common, and wild hog are still very

numerous in some parts of the District. The latter do great damage to growing crops, especially to sugar-cane.

The mean temperature for the year is 74°. The mean minimum rises from 53° in January to 79° in June, at which point it remains constant until September; the mean maximum is highest (97°) in April. The annual rainfall averages 60 inches, of which 7 fall in May, 11·3 in June, 10·4 in July, 10·7 in August, and 7·7 in September.

The country once formed a portion of the old kingdom of Banga or Samatata, but the earliest traditions still current are associated with the

name of Khanja Ali, who came to the District four and History. a half centuries ago. He obtained a jagir from the king of Gaur and made extensive clearances in the Sundarbans, where he appears to have exercised all the rights of sovereignty till his death in 1450. He left numerous mosques and tombs, but most of these are in Khulna District. The next traditions are connected with Raja Vikramāditva, one of the chief ministers of Daud Khān, the last king of Hengal, who obtained a grant in the Sundarbans and established a city to which he retired with his family and dependants. The vernacular name of the District is a corruption of Yasohara ('glory depriving,' as it is said to have robbed Gaur of its pre-emmence), the name given by Vikramāditya to his capital city, the site of which was at Iswanipun in Khulna District. Vikramaditta was succeeded by his son Pratāpāditva, the popular hero of the Sundarbans, who gained predominance over the twelve chiefs or Bhuiyas who then held the south and east of Bengal; he was eventually defeated and captured by Fijā Mān Singh, the Hindu leader of Akbar's armies in Bengal from 1589 to 1606. The name Jessore continued to attach itself to the estates which Pratāpāditya had possessed. The military governor, who had charge of them, and who was located at Mirzangar on the Kabadak, was called the Faujdar of Jessore; and when the headquarters of the District were brought to Kasbā (where they now are), the name lessore was applied to the town where the courts were Until 1786 the District was still nearly conterminous with Rājā Pratāpāditya's territories; but since that date large areas have from time to time been shorn away, and at the present day it covers barely one-half of its original area.

After the fall of Rājā Pratāpāditya those of his parganas which were situated within the present area of this District were divided into three zamīndāris, that in the south being held by the Rājā of Jessore, known as the Chānchra Rājā, and that in the north by the Rājā of Naldānga, while the third, called the zamīndāri of Bhūshanā, fell into the hands of Rājā Sītā Rām Rai, concerning whom there are numerous legends in the north-east of the District. He was a talukdār of a village called Hariharnagar on the bank of the Madhumatī river, and is said to have

HISTORY

been deputed by the Nawab of Dacca to collect his revenues; but as the revenues never went farther than Sita Ram himself, the Nawab sent an army against him and at length succeeded in capturing him about the year 1712. The ruins of Sita Ram's palace and the various large tanks which he constructed are still to be seen at Muhammadpur.

The Rājās of Jessore or Chānchra trace their origin to Bhābeswar Rai, a soldier in the army of an imperial general, who conferred on him several parvanas taken from Pratāpāditya. He died in 1588, and was succeeded by his son Mahtab Ram Rai, who assisted Man Singh against Pratapaditya, and at the close of the war was allowed to retain the bargangs made over to his father. To him succeeded Kandarpa Rai. who added considerably to the estate: and he in turn was followed by Manohar Rai (1649-1705), who is regarded as the principal founder of the family. The estate, when he inherited it, was of moderate size: but he acquired one pargana after another, until, at his death, the property was by far the largest in the neighbourhood. The estate then went to Krishna Ram, who was followed by Sukh Deb Rai (1720-45). The latter divided the estate into a three-quarters share and a onequarter share, the former being called the Isafour and the latter the Saidpur estate. The latter was given by Sukh Deb to his brother Syam Sundar, who died without issue, leaving it vacant. It was afterwards conferred by the East India Company upon a landholder in exchange for certain lands near Calcutta. The possessor of the property in 1814. Hājī Muhammad Mohsin, made over the estate in trust for the Hooghly Imambara, which has ever since enjoyed its revenues. Isafpur estate was inherited in 1764 by Srī Kanta Rai, who sustained such heavy losses about the time of the Permanent Settlement, that his family was left destitute and forced to fall back upon the bounty of the Government. His grandson, Barada Kanta, who succeeded in 1817, being a minor, the property was administered by the Court of Wards, and its value greatly increased. In 1821 the Government added to his estate the confiscated pargana of Sahos, and subsequently bestowed on Barada Kanta the title of Raia Bahadur in recognition of services rendered by him during the Mutiny. He died in 1880, leaving three sons, the eldest of whom succeeded to the title and estates.

The revenue or financial administration (divani) was transferred to the East India Company with that of the rest of Bengal in 1765; but it was not until 1781, when a court was opened at Murali near Jessore town, that British administration was completely established in the District. The first Judge and Magistrate was Mr. Henckell, who founded a market still known as Henckellganj, and was the first to urge upon the Government the scheme of Sundarbans reclamation (see Sundarbans). Mr. Rocke, who succeeded him in 1789, trans-

ferred the civil station to Jessore, where it still remains. Among the Collectors of Jessore was Mr. R. Thackeray, father of the novelist, who acted in that capacity for a few months in 1805. The boundaries of the District have undergone frequent changes: extensive areas on the east and south have been taken away to form the Districts of Faridpur and Khulnā, while additions have been made from the Twenty-four Parganas and Nadiā on the west.

The population of the present area was returned at 1.451,507 in 1872 and 1,039,375 in 1881, but it fell to 1,888,827 in 1801 and 1.813,155 in 1901. The apparent increase in 1881 Population. was probably caused by the inaccuracy of the first Census: the subsequent decline is due to the extremely insanitary conditions which prevail. The banks of the rivers are higher than the country behind them, and depressions are thus formed between the main watercourses. The drainage of these was always difficult, and it has now become almost impossible owing to the silting up of the mouths of the rivers and drainage channels. Stagnant swamps are thus formed, while good drinking-water is scarce, and the homesteads are enveloped in dense jungle. It was in this District that choleraappeared in a violently enidemic form in 1817. Here, too, twenty years later, originated that terribly fatal kind of fever subsequently known as 'Nadia,' and then as 'Burdwan fever,' which decimated the population of the country from Jessore westwards as far as the Bishnu pur subdivision of Bankura. The first known outbreak occurred near Muhammadpur among a body of some 600 prisoners working on the road from Jessore to Dacca. In 1843 the epidemic seemed to disappear, but it again broke out in 1846. At the present time this malignant type of fever is not noticeable; but a milder form is very prevalent, which is relentlessly at work, destroying many and sapping the vitality of the survivors and reducing their fecundity. Cholera is also prevalent, and small pox, dysentery, and diarrhoea claim many victims.

The chief statistics of the Census of 1901 are shown below: -

| Subdivision | Area in squar | Number | Population | Population per | Percentage of variation in population be tween 1801 and 1901 | Number of persons able to read and write. |
|---------------------------------------|--------------------------|--------|--|-------------------|--|--|
| Jessore Jhenida Magura Naral | 889 475 425 487 | | 188 561,242 364 304,899 334 277,381 310 352,381 | 642 653 | - 5.6 - 2.3 - 8.5 + 1.1 | 37,616 14,893 12,538 |
| Bangaon , District total | 2,925 | | 798 317,352 194 1,813,155 | 723 489 620 | - 3·9 - 4·0 | 15,929 105,102 |

The three towns are JESSORE, the head-quarters, KOTCHANDPUR, and MARESPUR: but they are all small (only 1 per cent, of the population being urban), and have all lost ground since 1801, though Kotchandour has a considerable trade. The population is densest in the east, where the soil is most fertile and still receives occasional deposits of silt, and most scattered in the Bangaon subdivision to the west. The decadence already referred to is most marked in the country running west and south-west from the Muhammadour thang on the eastern boundary, the centre of both epidemic cholera and of the 'Burdwan fever.' This unhealthy zone stretches eastwards and northwards beyond the Jessore boundary, and includes the north-western part of Faridour and a small area in the north-west of Khulna. There is little migration except to and from the surrounding Districts. The language of the District is Hengali, the dialects snoken being the Eastern or Musalmani, and Central Bengali. Of the population, 61 per cent, are Muhammadans and so per cent. Hindus.

The majority of the Muhammadans are Shaikhs (984,000), who are probably in the main the descendants of converts from the aboriginal Namasūdras. This is the most numerous Hindu caste (175,000); but Kāyasths (55,000), Muchīs (48,000), Kaibarttas (45,000), Brāhmans (39,000), Mālos (27,000), Ahīrs and Goālās (26,000), and Sāhās (24,000) are also well represented. A noted colony of Kulin Brāhmans resides at Lakshmīpāsa. Agriculture supports 71 per cent. of the population, industries 15 per cent., commerce 0.6 per cent., and the professions 1.9 per cent.

Christians in 1901 numbered 912, of whom 867 were natives. The Baptist Missionary Society, the London Missionary Society, and a Roman Catholic mission are at work in this District: of these the Roman Catholic and Baptist missions have secured most converts.

The soil is fertile, but the northern part no longer receives the annual deposit of silt which used to enrich it. Here aus or autumn rice is the principal staple, but tobacco, sugar-cane, Agriculture. and various cold-season crops are also grown, The low country in the south is chiefly under rice cultivation, aman or winter rice predominating. Date-palms are largely grown for the manufacture of sugar. They commence bearing when they are about seven years old, and continue to bear for about twenty-five years. The juice is collected from November to February, the yield of gur being about 15 to 20 seers per tree. Indigo was formerly extensively cultivated; but a large number of factories were closed in consequence of the disturbances of 1859-61 (of which some account will be found in the article on Nadia District), and its cultivation has now almost entirely disappeared. Cultivation has suffered much in the Jhenida subdivision from the drying up of the rivers; in the Magura subdivision the area

under āman rice is contrasting owing to deficient floods, but that of aus and jute is extending. There is no artificial irrigation.

The principal agricultural statistics for 1903-4 are shown below, areas being in square miles:—

| | Sal | divisio | n | | | Total | Cultivated, | Cuitivable waste. |
|---------|-----|---------|---|---|-----|-------|-------------|----------------------|
| lessore | | | | | | 889 | 506 | 24 |
| [henlda | | | | | - 1 | 475 | 309 | 15 16 |
| Mägura | | | | | - [| 425 | 26H | |
| Narāl | | 4.5 | | | -) | 487 | 389 | 18 |
| Bangaon | | | , | | - | 649 | 389 | 14 |
| | | | | Т | tal | 2,925 | 1,861 | 87 |

Of the cultivated area it is estimated that 168 square miles are twice cropped. Rice is grown on 1,301 square miles. Aman rice is sown in April and May, and reaped in November or December; the land for this crop is usually ploughed four times before sowing, and except in marsh lands the young shoots are transplanted in July. For aus rice the ground is ploughed five or six times and the seed is sown broadcast: the land on which it is grown generally yields a cold-season crop as well. Boro rice land is hardly ploughed at all: the seed is scattered broadcast in the marshes as they dry up, and the shoots are transplanted when a month old, and sometimes again a month later. Other crops grown are gram (26 square miles), pulses, &c., (108 square miles), oilseeds, including mustard, linseed, and til (Sesamam indicum) (162 square miles), sugar-cane (15 square miles), jute (48 square miles), and tobacco (32 square miles). On the occasion of the scarcity in the Magura subdivision in 1897-8, Rs. 64,000 was advanced under the Agriculturists' Loans Act.

The cattle are poor. There are no regular pasture-lands, but cattle are grazed on the banks of marshes and in the date-palm orchards.

Coarse cotton cloths are woven on hand-looms throughout the District. Mats and baskets, made by the Muchis and Doms,

Trade and communications. have a large local sale. Cart-wheels are extensively made: those prepared in the Jhenida subdivision are largely sold at Bāduriā in the Twenty-four Parganas.

Lime for white-washing and for eating with pān is prepared by Baitis from shells collected in the marshes by women of the Bāgdi caste. Gold and silver ornaments and iron and brass-ware are manufactured. Lac bracelets are made at Lohāgarā by immigrants from the United Provinces. The date-palm sugar industry is of local importance, but is gradually declining in spite of the imposition of countervailing duties on imported sugar; in 1900-1 there were 117 factories, with an outturn of 235,000 maunds, valued at 15-15 lakhs.

The principal imports are rice and sundri wood (Heritiera littoralis) from Backergunge and the Sundarbans; cotton piece-goods, cotton twist, salt, kerosene oil, flour, and potatoes from Calcutta; and coal from Burdwan. The principal exports are paddy, pulses, jute, linseed, tamarind, coco-nuts, unrefined sugar, oil-cake, hides, earthen jars, cart-wheels, bamboos, bones, betel-nuts, timber, ghi, and fish, chiefly to Backergunge and Calcutta. Except in the Jhenida subdivision, where there is a large amount of cart traffic, most of the trade is carried by boats and is in the hands of Sāhā and Teli dealers; but considerable quantities of jute and bamboos are sent by rail to Calcutta. Kotchāndpur is the largest and Kesabpur the second largest centre of trade; Naldānga, Chaugācha, Māgura, Jhenida, Chāndkhāli, Khājura, and Binodpur are important trading villages.

The central section of the Eastern Bengal State Railway connects Calcutta with Jessore, the head-quarters station, whence it runs southeast to Khulnā. This line is connected with the eastern section of the same railway by a branch from Bangaon to Rānāghāt. Excluding village tracks, the District contains 581 miles of roads, of which 117 miles are metalled; the most important are the Provincial road from Jessore to Calcutta, and those connecting Jessore with Kesabpur and Jhenida, Kālīganj with Hansada, and Jhenida with Borai and Māgura. Road communication is best in the higher land in the head-quarters, Jhenida, and Bangaon subdivisions, where the silting up of the water communications has rendered them more necessary than elsewhere. There are 45 ferries.

The rivers are in many cases no longer navigable in their upper reaches except during the rains, but lower down they are tidal, and carry large boats and small steamers throughout the year. Steamer services ply on alternate weekdays from Khulnā up the Athārabānki and Madhumatī as far as Muhammadpur; daily from Khulnā by Kālia to Lohāgarā, and by the Majudkhāli-Chitrā-Ghorākhāli Khāl and the Nabagangā to Binodpur throughout the year and during the rains as far as Māgura; and on alternate weekdays from Kapilmuni up the Kabadak to Kotchāndpur, feeding the railway at Jhingergācha. During the rains boats ranging up to 2,000 maunds carry jute to the stations on the railway, while some go direct to Calcutta. Large passenger boats ply on the Nabagangā and Chitrā rivers and on the channels connecting them with the railway stations.

There has been no famine in Jessore in recent times; but there was some scarcity in the Māgura subdivision in 1897, when rice sold at 7½ seers to the rupee. Advances were made under the Agriculturists' Loans Act, but Government relief was only necessary on a small scale.

For administrative purposes the District is divided into five subdivi-

Sions, with head-quarters at Jessore, Jhenida, Māgura, Narāl, and Bangaon. The Magistrate-Collector is assisted at head-quarters by a staff of five Deputy-Magistrate-Collectors; the subdivisions of Māgura, Narāl, and Bangaon are in charge of Deputy-Magistrate-Collectors, while the subdivisional officer of Jhenida is usually a Joint-Magistrate. The subdivisional officers of Bangaon, Jhenida, and Narāl are occasionally assisted by Sub-Deputy-Collectors.

The civil courts subordinate to the District and Sessions Judge, who is also Judge of Khulnā, are those of a Sub-Judge and four Munsifs at Jessore, three Munsifs at Narāl, and two each at Jhenida, Māgura, and Bangaon. The total number of criminal courts is twenty-three, including an Additional Sessions Judge, who is also employed for part of the year at Khulnā. The District had at one time an unenviable reputation for dacoity, but this is no longer the case. Petty riots arising out of land disputes are common.

At the settlement of Todar Mal the greater part of the District was included in sarkar Khālifatābād, but a small portion in the northeast formed part of sarkār Muhammadābād or Bhūshanā. The District was subsequently divided chiefly among the great samindaris of Isaf pur, Saidpur, and Muhammadshāhi. The revenue administration was assumed by the British in 1772, but a Collectorate was not established till 1786, prior to which date the land revenue head-quarters were at Calcutta. Owing to the continuous changes of fiscal jurisdiction, comparison of the land revenue with that formerly paid is in possible. The present incidence amounts to only R, o 11 2 per cultivated acre. Subdivision of property has gone on rapidly under British rule, and there are now 2,444 permanently settled estates, in addition to 70 small estates which are temporarily settled, and 85 held direct by Government. Sub-infeudation of holdings has also been carried on to an enormous extent. The average rate of rent is Rs. 2 15 4 per cultivated acre, but the amount varies according to the crops for which the land is suitable. The rates for rice land range from Rs. 1-8 to Rs. 12 per acre, for jute from Rs. 2-10 to Rs. 2-13, pulses and oilseeds from Rs. 4 to Rs. 4 8, sugar-cane from Rs. 3 to Rs. 7-8. vegetables from Rs. 3 to Rs. 9, date-palms from Rs. 3-3 to Rs. 9, betel and coco-nut palms from Rs. 10 to Rs. 16, and pan gardens from Rs. 8 to Rs. 20, while homestead land fetches Rs. 10 to Rs 15, and garden land Rs. 10 to Rs. 20 per acre. Rents are lowest in the less fertile Bangaon subdivision, where the maximum rate for rice lands is Rs. 3 per acre. The average quantity of land held by each ryot is 8 acres. The utbandi system (see NADIA DISTRICT) prevails in some parts of the District; korfa ryots, who hold land under a middleman, are numerous.

The following table shows the collections of land revenue and of total revenue (principal heads only), in thousands of rupees:—

| - | | | | 1880-1.* | 1890-1. | 1900-i. | 1903-4. |
|---|-------------------------------|---|---|----------------|---------------|---------------|---------------|
| | Land revenue Total revenue | : | : | 10,84 18,88 | 8,69 15,42 | 8,60 16,92 | 8,54 16,89 |

" In 1880-1 the District did not include the subdivision of Bangaon, which was subsequently transferred to it from Nadia.

Outside the municipalities of JESSORE, KOTCHĀNDPUR, and MARESPUR, local affairs are managed by the District board, with subordinate local boards in each subdivision. In 1903-4 the income of the District board was Rs. 1,70,000, of which Rs. 99,000 was derived from rates; and the expenditure was Rs. 1,68,000. Schemes for the reclamation of the river Bhairab, a standing source of unhealthiness, and for opening the Muchikhāli Khāl are under contemplation. The Hallifax Canal, one mile in length, excavated in 1901, connects the Madhumatī and Nabagangā rivers in the Narāl subdivision.

The District contains 20 police stations and 10 outposts; and in 1903 the force subordinate to the District Superintendent consisted of 5 inspectors, 43 sub-inspectors, 36 head constables, and 421 constables (including 38 town chauktdārs and water police). In addition, there is a rural force of 245 daffadārs and 3,839 chauktdārs. The District jail at JESSORE has accommodation for 370 prisoners, and subsidiary jails at each of the subdivisional out-stations for 106.

The District is less advanced in respect of education than would be expected from its proximity to Calcutta, and in 1901 only 5.8 per cent. of the population (11 males and 0.5 females) could read and write. The number of pupils under instruction was 34,000 in 1892-3 and 35,000 in 1900-1. In 1903-4, 43,000 boys and 4,000 girls were at school, being respectively 31-1 and 2-6 per cent. of the children of school-going age. The number of educational institutions, public and private, in that year was 1,367, including an Arts college, 85 secondary, 1,255 primary, and 26 special schools. The expenditure on education was 2-1 lakhs, of which Rs. 23,000 was met from Provincial funds, Rs. 41,000 from District funds, Rs. 600 from municipal funds, and 1 lakh from fees. The principal educational institutions are the Victoria College at Narāl and high schools at Kālia, Māgura, and Jessore town.

In 1903 the District contained 12 dispensaries, of which 5 had accommodation for 30 in-patients. At these the cases of 62,000 outpatients and 500 in-patients were treated during the year, and 2,000 operations were performed. The expenditure was Rs. 19,000, of which Rs. 1,700 was met by a Government subvention, Rs. 7,000 from Local and Rs. 3,000 from municipal funds, and Rs. 8,000 from subscriptions.

Vaccination is compulsory only in municipal areas. During 1903-4 the number of persons successfully vaccinated was 54,000, representing 29-9 per 1,000 of the population.

[Sir W. W. Hunter, Statistical Account of Bengal, vols. i and ii (1875); Sir J. Westland. Report on Iessore (Calcutta, 1874).]

Jessore Subdivision.—Head-quarters subdivision of Jessore District, Bengal, lying between 22° 47′ and 23° 28′ N. and 88° 59′ and 89° 26′ E., with an area of 889 square miles. The subdivision is an alluvial tract, containing some large marshes and traversed by streams which have now silted up except in the lower reaches. The population in 1901 was 561,242, compared with 594,835 in 1891, the density being 631 persons per square mile. It contains one town, Jessore (population, 8,054), the head-quarters; and 1,488 villages. The principal marts are at Basantia, Jessore town, Jessore town,

Jessore Town.—Head-quarters of Jessore District, Bengal, situated in 23° 10' N. and 89° 13' E., on the Bhairab river, and on the Eastern Bengal State Railway, 74 miles from Calcutta and 35 miles from Population (1901), 8,054. The name was applied to the village of Kasha when it was made the head-quarters of the District. The villages of Purana, Kasba, Bagchbar, Sankarpur, and Chanchra lie within the municipal limits. The last contains the residence of the Rajas of Chanchra or Jessore (see Jessore District), and the remains of a rampart and fosse by which it was once surrounded are still visible. Jessore was constituted a municipality in 1864. The income during the decade ending 1901-2 averaged Rs. 19,000, and the expenditure Rs. 18,000. In 1903-4 the income was Rs. 22,000, of which Rs. 10,000 was derived from a tax on houses and lands, and Rs. 5,000 from a conservancy rate; the expenditure was Rs. 21,000. The town possesses the usual public offices, including criminal, revenue, and civil courts, the District jail, a church, a dispensary with 16 beds, a public library. and a high school. The jail has accommodation for 370 prisoners; the industries carried on are brick-making, surki and khoā pounding, cane and bamboo work, and the manufacture of coir mats and jute string. There are three printing presses, and a weekly newspaper and two monthly magazines with a large circulation are published. Part of the town is provided with a filtered water-supply, and it is proposed to extend this by the construction of large water-works.

Jetpur (Devli).—State in the Kāthiāwār Political Agency, Bombay, lying between 22° 36′ and 22° 49′ N. and 70° 35′ and 70° 51′ E., with an area of 94 square miles. The population in 1901 was 11,568, residing in 21 villages. The revenue in 1903-4 was Rs. 1,25,000, and the cultivated area 48 square miles. The State ranks as a fourth-class State in Kāthiāwār, but the present chief has the rank of a third-class chief. Jetpur is now held by twenty tālukdārs, descended from 2

common ancestor, Nāja Desa; and the four most important States are shown below. Nāja Desa's two sons, Viro and Jeto, founded the Virāni and Jethāni subdivisions of Jetpur; and Viro had two sons who in their turn subdivided the Virāni estate into two parts, Oghad Virāni and Kānthad Virāni. The Jethāni estate was similarly again subdivided into Vikamshi Jethāni and Bhoko Jethāni. The four principal States now exercising third and fourth-class jurisdiction are:—

| State. | | Class. | Subdivision. | |
|---|-----|----------------------------|---|--|
| Jetpur (Devli) Jetpur (Vadia) Jetpur (Mulu Surag) Jetpur (Nāja Kāla) | . ! | 3rd class . 4th class . | Bhoko Jethāni. Kānthad Virāni, Vikamshi Jethāni. Oghad Virāni. | |

Two different accounts are given of the acquisition of Jetpur: namely, that of the Tārīkh-i-Sorath, which says that the first Nawāb of Junāgarh, Bahādur Khān I, granted Jetpur to Vala Vira; and a tradition which says that Viro Nāja of Chital aided the Valas of Bagasra in their feud with Vaijo Khasia of Mitala, and that Vala Sāmant of Bagasra was slain in the battle. In consideration of Viro's aid the Valas of Bagasra gave him Jetpur. These Bagasra Valas acquired their share in Jetpur from the Khadia Baloch, who received it from the local Muhammadan governors of former times. Subsequently Jetpur was conquered from Champrāj, the great-grandson of Jetha Nāja, by Shams Khān, a Musalmān sardār. The tāluka remained in an unsettled state for a long time, but in course of time Champrāj's descendant restored it to its former position.

Jetpur (Vadia).—State in the Kāthiāwar l'olitical Agency, Bombay situated in about 21° 40′ N. and 71° 53′ E., with an area of 72 square miles. The population in 1901 was 10,330, residing in 17 villages. The revenue in 1903-4 was Rs. 1,30,000, and the cultivated area 43 square miles. The State ranks as a third-class State in Kāthiāwār. For history see Jetpur (Devli).

Jetpur (Mulu Surag).—State in the Kāthiāwār Political Agency, Bombay, lying between 21° 36′ and 21° 49′ N. and 70° 36′ and 70° 50′ E., with an area of 25 square miles. The population in 1901 was 6,728, residing in 16 villages. The revenue in 1903-4 was Rs. 60,000, and the cultivated area 20 square miles. The State ranks as a fourth-class State in Kāthiāwār. For history see Jetpur (Devli).

Jetpur (Nāja Kāla or Bilkha).—State in the Kāthiāwār Political Agency, Bombay, lying between 21° and 21° 23′ N. and 70° 35′ and 70° 57′ E., with an area of 72 square miles. The population in 1901 was 10,366, residing in 24 villages. The revenue in 1903-4 was

Rs. 1,75,000, and the cultivated area 52 square miles. The State ranks as a fourth-class State in Kāthiāwār. For history see JETPUR (DEVLI).

Jetpur Town.—Fortified town in the State of the same name, Kāthiāwār, Bombay, situated in 21° 45′ N. and 70° 48′ E., on the western bank of the Bhādar river, 40 miles north-east of Porbandar. Population (1901), 15,919. Jetpur is a flourishing town on the Bhavnagar-Gondal-Junāgarh-Porbandar Railway, well equipped with public buildings. A fine bridge has been thrown across the Bhādar river about a mile north of the town.

Jeur.—Market town in the District and tāluka of Ahmadnagar, Bombay, situated in 19° 18' N. and 74° 48' E., about 13 miles northeast of Ahmadnagar, on the Toka road. Population (1901), 5,005. The town is enclosed by a rumed wall and has a strong gateway with a paved entrance. Close by, perched on a high hill, is a group of three temples, one of them with an inscription dated 1781. Two miles north of Jeur, at the top of a beautiful ravine, down which winds the Nevāsa road, is the Imāmpur travellers' bungalow. The bungalow is an old mosque and stands in a large grove with excellent shade.

Jewar.—Town in the Khurja tahsil of Bulandshahr District, United Provinces, situated in 28° 7′ N. and 77° 34′ E., 20 miles west of Khurja. Population (1901), 7,718. In the eleventh century Jādon Rājputs, invited from Bharatpur by the Brāhmans of Jewar, settled in the town and expelled the Meos. The well-known Begam Sumrū held Jewar till her death in 1836, when it lapsed to Government. The town lies among the ravines and broken ground on the edge of the high land above the Jumna, and is well drained. The market was rebuilt in 1881, and is now lined with good brick-built shops. Jewar is administered under Act XX of 1856, with an income of about Rs. 2,000. There is a small manufacture of cotton rugs and carpets, and a weekly market is held. The town contains a prosperous agricultural bank, a middle school with 120 pupils, and a small primary school for girls, besides a branch of the American Methodist Mission.

Jeylap. - Pass in the Himālayas. See JELEP LA.

Jeypore. Political Agency, State, and city in Rajputana. See Jaipur.

Jeypore Estate.—Estate occupying the whole of the northern part of Vizagapatam District, Madras. It embraces practically all the Agency or hill tracts therein, and consists of the tahsils of Nowrangapur, Jeypore, Koraput, Malkangiri, Bissamcuttack, and Rāyagada, and the major portion of Padwa, Pottangi, and Gunupur. The residence of the Rājā is at Jeypore town.

The samindari is divided into two portions, east and west, by the Kalahandi State of Bengal. The western portion forms the Government subdivision, of which the head-quarters are at Koraput, while

the eastern is under the jurisdiction of the Special Assistant-Agent at Pärvatīpuram. Each portion has a separate river system, the western being drained by tributaries of the Godāvari, and the eastern by the Nāgāvali (or Lāngulya) and Vamsadhāra rivers and their affluents.

Various forms of under-tenure prevail within the estate. The proprietor of the subsidiary estate of Bissamcuttack holds his land on feudatory tenure; whole villages are leased out for a nominal rent to mustājirs or muttahdārs, who have in many cases the right to sell portions or the whole of their village without the sanction of the Rājā; while a large portion of the estate is leased out on jerāyati tenure direct to the cultivators.

Ethnologically we find that the aboriginal tribes have been overlaid by immigration. The Khonds and Savaras, who inhabit the wild tracts adjoining the Ganjām Māliahs (hills), retain their separate tribal characteristics and languages, but in other parts the customs and practices of the new-comers have, in many cases, been adopted. In Kotapad and Singapur, for instance, the earlier peoples have adopted the practice of burning their dead. On the other hand, the Meriah human sacrifice (see Māliahs), which is supposed to be a purely Khond rite, spread among the immigrants and obtained so firm a hold that it had to be suppressed by force, a special agency being employed for that purpose until as late as 1861.

The ancestors of the present house of Jeypore were at one time retainers of the Gajapati kings of Orissa. In the fifteenth century its founder, Vināyaka Deo, whom tradition asserts to be descended from the Lunar race of Rājputs, married a daughter of the Gajapati king, who bestowed upon him the Jeypore principality. About the year 1652, when the founder of the Vizianagram family came to Chicacole in the train of the Golconda Faujdār, Sher Muhammad Khān, the present Jeypore family, descended from Vināyaka Deo, was in possession not only of the country comprised within the present limits of the estate, but of all the hill samindāris at the base of the Ghāts. Jeypore subsequently became tributary to Vizianagram; but in 1794 the Madras Government granted the Jeypore ruler a separate sanad as a reward for his loyalty during their conflict with Vizianagram which ended with the battle of Padmanābham.

In 1803 the *peshkash* of the estate was fixed at Rs, 16,000. In addition, Rs. 13,666 is paid for the *pargana* of Kotapad, in lieu of the tax originally paid thereon to the State of Bastar in the Central Provinces.

In 1848, owing to the insubordination of members of the Rājā's family, some of the tahsīls of the estate were attached by Government. In 1855 troubles again broke out, and finally, in 1860, the Government was compelled to introduce a system of civil and criminal

administration. A Special Assistant-Agent was appointed, and subordinate magistrates and a strong police force were posted in the zamīndāri. Since then the estate has been free from disturbances, save for two unimportant outbreaks among the Savaras in 1865-6.

The present Rājā is Srī Vikrama Deo, on whom the title of Mahārājā was conferred as a special distinction in January, 1896. Under the existing system of administration continual progress is assured; and the recently constituted Forest department is opening out the immense timber resources of the estate, which includes the finest forest in Vizagapatam District.

Jeypore Tahsil. -- Agency tahsil in Vizagapatam District, Madras, lying above the Chāts, with an area of 1,016 square miles. The population in 1901 was 133,831, compared with 140,580 in 1891. They live in 1,213 villages. The chief town is Jeypore (population, 6,689), the residence of the Rājā of the Jeypore Estate, and a centre of trade between the Central Provinces and the low country of the District. The demand for land revenue and cesses for the whole estate in 1903-4 was Rs. 26,000. The tahsīl is all zamīndāri land and is for the most part open and well cultivated, the Kolab river passing through the centre of it.

Jeysulmere. -State and town in Rajputana. See [AISALMER.

Jhābua. - A guaranteed chiefship under the Bhopāwar Agency, Central India, lying between 22° 28' and 23° 14' N. and 74° 20' and 75° 19' E., with an area of 1,336 square miles. It is bounded on the north by Kushālgarh State in the Rājputāna Agency; on the south by Jobat State; on the east by Alī-Rājpur and Dhār; and on the west by the Pānch Mahāls District of Bombay. The State lies wholly in the mountainous region of Mālwā known as Rāth, which is formed by the branch of the Vindhyas that strikes northwards towards Udaipur and constitutes the western boundary of the Mālwā plateau. A succession of forest-clad ridges run generally north and south, traversed by numerous streams which flow into the Anās, a tributary of the Mahí. The climate throughout most of the State is subject to greater extremes than are met with on the more open land of the Mālwā plateau. The annual rainfall averages about 30 inches.

The State takes its name from the chief town, founded in the sixteenth century by a notorious freebooter, Jhabbu Naik, of the Labhānā caste. The present ruler is a Rāthor Rājput, descended from Bir Singh, fifth son of Jodha, the founder of Jodhpur in Rājputāna. This branch of the family rose to favour at Delhi, and acquired Badnāwar in Mālwā in fief in 1584. Kesho Dās, son of Bhīmān Singh, who then held Badnāwar, was attached to the retinue of prince Saltm, who, on his accession as the emperor Jahāngīr, employed him to subdue the turbulent freebooters infesting the south-

western districts of Mālwā. After suppressing these gangs, Kesho Dās obtained possession of their lands. In 1607 he was invested with the insignia of nobility by the emperor, but died the same year, poisoned by his son and heir. From this time onwards the State was subjected to much internal disturbance, the confusion being greatly increased by the appearance of the Marathas in 1722; and the next year the State was formally placed under the management of Holkar during the minority of the chief. In 1817 the revenues were merely nominal. owing principally to Maratha oppression though, singularly enough, Holkar left the collection and payment of the chauth or fourth part of the revenue which was his due to the Ihabua officials. settlement of Mālwā by Sir John Malcolm the State was guaranteed to the family. Rājā Gopāl Singh (1840-04), though only seventeen years of age at the time of the Mutiny, rendered good service in assisting the fugitives from Bhopawar, in recognition of which he was presented with a khilat of Rs. 12,500 in value. In 1865, however, he permitted a prisoner confined under suspicion of theft to be mutilated, for which a fine of Rs. 10,000 was imposed and his salute discontinued for one year. Till 1870 the States of Indore and Ihābua exercised joint jurisdiction over the Thandla and Petlawad districts: but as this arrangement led to constant disputes, an exchange of territory was effected in 1871, by which Petlawad was assigned to Indore. Thandla remaining with Ihabua, which pays Rs. 4,350 a year to Indore in adjustment of The present chief, Udai Singh, succeeded by adoption in 1804, and has exercised administrative powers since 1808. The ruler bears the title of His Highness and Raia, and receives a salute of 11 guns.

Population has varied at the last three enumerations: (1881) 92,938, (1891) 119,787, and (1901) 80,889. The large decrease during the last decade is accounted for by the severe losses incurred by the Bhīl population in the famine of 1899–1900. The density is 60 persons per square mile. Animists, chiefly Bhīls, number 58,428, or 72 per cent. of the total population, and Hindus 18,156, or 22 per cent. The Roman Catholic mission has a station at Thāndla, and native Christians numbered 73 in 1901. The chief tribes and castes are Bhīls, 29,200, who form 36 per cent. of the population; Bhilālas, 14,500, or 18 per cent.; Patlias, 8,700, or 10 per cent.; and Rājputs, 2,000, or 3 per cent. Agriculture supports 61 per cent. and general labour 8 per cent. The State contains 686 villages and 158 bhīlpāras (hamlets).

Land is divided locally into two sections: the Mahīdhāwa or land along the Mahī river, which is cultivable; and the Ghāta or hilly tract, of which the greater part of the State is composed, and which is of low fertility and incapable of irrigation. Of the total area, only 120 square miles, or 9 per cent., are under cultivation, and 4 square miles, or

3 per cent., are irrigated. Of the uncultivated area, 363 square miles, or 27 per cent. of the total area, are cultivable, and 440 square miles, or 33 per cent., are under forest, the remainder being uncultivable waste. Maize occupies 64 square miles, or 53 per cent. of the cultivated area; rice, 12 square miles; gram and wheat, 10 square miles each; jowār, 8 square miles; cotton, 34 square miles; and poppy, 2 square miles.

The mineral resources are probably considerable, but have not as yet been fully investigated. At present manganese is worked to a small extent in the Rambhāpur pargana by a Bombay firm, who pay a royalty of 4 annas per ton of ore exported. The ore is exported from Meghnagar station on the Ratlām-Godhra section of the Bombay, Baroda, and Central India Railway, to which a light tramway has been laid by the contractors.

The isolated and wild nature of the country makes any general development of commerce difficult. The main source of commercial profit is opium, which is exported to Ratlâm.

The chief means of communication are through the Meghnagar, Bajranggarh, Amargarh, and Bhairongarh stations of the Ratlām-Godhra section of the Bombay, Baroda, and Central India Railway. In 1900 a metalled road was commenced by the British Government between Jhābua and the Meghnagar station. British post offices are maintained at Jhābua, Thāndla, Bajranggarh, Rānāpur, and Meghnagar.

The State is divided for administrative purposes into four parganus Jhābua, Rambhāpur, Rānāpur, and Thāndla—each under a tahsīldar. Besides these parganus, managed directly by the State, eighteen families of nobles, the *Umraos*, hold fiels extending over 1946 square miles, or 71 per cent. of the total area, and pay a tribute of Rs. 5,000 to the Darbār, and Rs. 7,510 to Holkar.

The administration is carried on by the chief, assisted by the Diwān and the usual departments, of which the medical and forest are super-intended by the Agency Surgeon and the Forest officer, respectively. The chief exercises judicial powers intermediate between those of a District Magistrate and a Sessions Court, all serious cases being reported to the Political Agent. In cases of murder among the Bhīls, the Dārbar reports to the Political officer whether the case is one which can be dealt with by the local panchāyat (council of elders) or should be tried by the Political Agent. Appeals in criminal cases lie to the Diwān and to the chief, with power of reference to the Political Agent. In civil matters the chief's decision is final.

The normal revenue of the State is 1-1 lakhs, excluding alienated lands (1-3 lakhs). Of this, Rs. 53,000 is derived from land, Rs. 13,000 from customs, Rs. 10,000 from excise, and Rs. 5,000 from tribute.

The chief heads of expenditure are Rs. 60,000 on general administration. Rs. 20,000 on the chief's establishment, Rs. 15,000 on collecting the land revenue, and Rs. 3,000 on medical.

The incidence of the land revenue demand is Rs. 1-4-0 per acre of cultivated land and 3 annas per acre on the total area. As in all Rainut States, much of the land has been alienated in jagar grants to members of the chief's family and others. These alienated territories comprise 56 per cent, of the total cultivated area, but pay only 2 per cent of the total revenue. All rents are taken in cash, and since 1002 have been paid direct to the tahstldar. Ordinary rates vary from Rs. 3-2-2 to Rs. o per acre. A higher rate, amounting sometimes to Rs. 24 an acre, is paid for irrigable land growing poppy and sugarcane. In the hilly tract, the rates vary from a few annas to R. 1.

Opium is weighed at Ihabua, Thandla, and Hanumangarh before passing out of the State, and a duty of Rs. 5 is levied per chest of 40 lb.; when the poppy comes from the land of an Umrao Rs. 2 to Rs. 3 are taken by the State, the balance being received by the Umrao.

Copper coins were struck in Ihābua up to 1881, but discontinued after that date. The British rupee was made legal tender in 1803.

No regular troops are kept up, such irregulars as exist being used to assist the police. Two serviceable guns are used for firing salutes. The police were organized in 1001, and number of men under a chief inspector, besides 425 rural village police. The Central iail is at

The first school was opened in 1854. There are now 17 public and private schools, of which one is the mission school at Thandla, established in 1900. There are 283 pupils. In 1901 only 2 per cent. of the population (almost all males) were able to read and write. The State maintains three dispensaries—at Jhābua, Rānāpur, and Thāndla.

The town of Jhābua is situated in 22° 45' N. and 74° 38' E., on the edge of a small lake called the Bahadur-Sagar, 1,171 feet above sea-level. Population (1901), 3,354. The palace, which is surrounded by a mud wall with masonry bastions, stands on the north bank of the lake. The streets are narrow, steep, and winding. Beside the lake is the cenotaph of Raja Ratan Singh (1832-40), who was killed by lightning when riding on an elephant in the Nilkanth procession, during the Dasehra festival. The town is 11 miles from the Meghnagar station on the Godhra-Ratlam section of the Bombay, Baroda, and Central India Railway. It contains a State guesthouse, a dispensary. a British post office, a jail, and a school.

Jhajjar Tahsil.— Tahsil of Rohtak District, Punjab, lying between 28° 21' and 28° 41' N. and 76° 20' and 76° 56' E., with an area of 466 square miles. The population in 1901 was 123,227, compared with 119,453 in 1891. It contains one town, JHAJJAR (population, 12,227), VOL. XIV. н

the head-quarters; and 189 villages, including George CARH, founded by George Thomas. The land revenue and cesses in 1903-4 amounted to a 9 lakhs. The taksil is intersected in all directions by sand ridges which often rise to a considerable height. On the east the low-lying land used to be regularly flooded by the Sāhibi and Indori streams, and large swamps then formed in the depressions; but of recent years the volume of these torrents has diminished, and the country rarely remains flooded for any considerable period. The north of the taksil is a continuation of the plateau of Rohtak and Sāmpla, while in the south a few low rocky eminences lend variety to the landscape.

Jhajjar Town. -- Head-quarters of the tahsil of the same name in Rohtak District, Punjah, situated in 28° 36' N. and 76° 40' E., 21 miles south of Rohtak town and as miles west of Delhi. Population (1001). 12.227. The town was destroyed by Muhammad of Ghor and refounded by a lat clan. It was taken from the Nawabs of Farrukhnagar by the lat chieftain Suraj Mal, and afterwards fell into the hands of Walter Reinhardt, husband of Begam Sumru. Thanar was assigned to George Themas in 1704, and on annexation in 1803 was granted to Nawab Nijabat Khan. The estate was confiscated in 1857 owing to the disloyalty of the ruling chief, Abdur Rahman Khan, who was hanged for his share in the Mutmy. Jhajjar became for a short time the headquarters of a District of that name, which was abolished in 1860. The principal buildings are the old palace of the Nawabs and the new " palace or Bagh Jahanara. The municipality was created in 1867. The income and expenditure during the ten years ending 1902 3 averaged ls. 13,500 and Rs. 14,000 respectively. In 1903-4 the income amounted to Rs. 18,600, chiefly derived from octroi, and the expenditure to Rs. 13,800. The town is noted for its dyeing industry. and for the thin or 'paper' pottery produced. It has a considerable manufacture of muslins and woollen goods, and embroidery is also largely carried on. The municipality maintains a dispensary and an Anglo-vernacular middle school.

Jhālakāti. Town in the head quarters subdivision of Backergunge District. Eastern Bengal and Assam, situated in 22° 39′ N. and 90° 13′ E, at the junction of the Nalchiti river and the Jhālakāti Khāl. Population (1901), 5,234. Jhālakāti hes on the main steamer route between Barisāl and Calcuita, and is one of the most important markets in Eastern Bengal, the chief exports being rice and betel-nuts, and the imports salt, tobacco, oil, and sugar. A very large quantity of timber, especially sundri wood (Heritera littoralis), cut in the Sundarbans, is sold here. There is an oil-mill with an annual out-turn estimated at Rs. 25,000. Jhālakāti was constituted a municipality in 1875. The income during the decade ending 1901–2 averaged Rs. 5,200, and the expenditure Rs. 5,000. In 1903–4 the income was Rs. 8,800.

mainly derived from a property tax and a conservancy rate; and the expenditure was Rs. 8,600.

Jhalawān.—A highland division of the Kalāt State, Baluchistān, comprising the country to the south of Kalāt as distinguished from Sarawān, the country to the north of that place, and lying between 25° 28' and 29° 21' N. and 65° 11' and 67° 27' E., with an area of 21,128 square miles. It is bounded on the north by the Sarawān country; on the south by the Las Bela State; on the east by Kachhi and Sind; and on the west by Khārān and Makrān. The boundary between the Jhalawān country and Sind was settled in 1853-4 and demarcated in 1861-2. Elsewhere it is still undetermined. An imaginary line drawn east and west through Bāghwāna divides the country into two natural divisions. To the north the general conditions are those of the upper highlands, and to the south those of

the lower highlands of Baluchistan. The country has a gradual slope to the south, with valleys of considerable width lying among lofty mountain ranges.

Physical aspects.

Among the more important valleys are Sūrāb with Gidar, Bāghwāna. Zahri, Khuzdār with Fīrozābād, Wad, Nāl, Sārūna, Jau, and the valley of the Mashkai river. The mountains comprise the southern portion of the CENTRAL BRAHUI range, including the Harboi-hills and the greater part of the KIRTHAR and PAB ranges. On the west the Garr hills and their continuation southward separate the country from Khārān and Makrān; in the centre lie a number of more or less detached mountains, the chief of which are Dobanzil (7.347 feet). Hushtir (7,260 feet), Shāshān (7,513 feet), and Drā Khel (8,102 feet). The rivers include the HINGOL, the largest river in Baluchistan, with its tributaries the Mashkai and the Arra; the Mūla, the HAB, and a portion of the Porali. Among the less important streams may be mentioned the Karkh or Karu and the Sain, which debouch into the Kachhi plain near Ihal, and the Kolāchi or Gāj, which traverses the centre of the country. None of these rivers possesses a continuous flow of water throughout its course.

In the north of the country nummulitic limestone is met with. Farther south red and white compact limestone (upper Cretaceous) is very extensively distributed. Beds containing chert are of frequent occurrence. Igneous rocks occur near Nāl, and on the east are the Kīrthar. Nāri, and Gāi geological groups.

Vegetation is scanty except in the Harboi hills, on the north, where juniper and wild almond grow in abundance. Elsewhere olive and pistachio occur. In the south the little tree growth includes Capparis aphylla, Prosopis spicigera, two kinds of Acacia, and Tamarix articulata. The northern hill-sides are thickly covered with a scrub jungle of Artemisia and Haloxylon Griffithii. Tulips, irises, and other bulbous plants

appear in the spring. The grasses are of the orders Bromus, Poa, and Hordeum. Dwarf-palm (Nannorhops Ritchicana) grows in profusion in the lower hills. Pomegranates are the commonest trees in the gardens, but apricots. mulberries. and dates are also found.

Sind ibex and mountain sheep are the most common game, but their numbers are decreasing. Leopards and black bears are occasionally killed. Wild hog are met with in the Mashkai valley. 'Ravine deer' are common. A few grey and black partridge are to be found in Lower Jhalawan; chikor are numerous in the higher parts, and sisi almost everywhere.

Upper Jhalawan possesses a climate resembling that of Quetta, moderate in summer and cold in winter, with well-marked seasons. The lower parts are pleasant in winter, but subject to intense heat in summer. At this time fever is very prevalent in places south of the Harboi range. Earthquakes frequently occur in the neighbourhood of Wad and Mashkai. The rainfall is scanty, and is received in the upper highlands in winter and in the lower parts in spring or summer.

The country passed in the seventh century from the Rai dynasty of Sind to the Arabs, by whom it was known as Turan. Its capital was

Khuzdar, which place was also the head-quarters of History. the Arab general commanding the Indian frontier. Kaikānān, probably the modern Nāl, was another place of importance. The Ghaznivids and Ghorids next held the country, and were followed by the Mongols, the advent of Chingiz Khan being still commemorated by the Chingiz Khan rock between Nichara and Pandran. With the rise of the Sumra and Samma dynasties in Sind, the Jat aborigines of the country appear to have gained the ascendancy, but in the middle of the fifteenth century they were ousted by the Mirwaris. Beginning from Nighār near Surāb, these founders of the Brāhur kingdom gradually extended their dominion over all the Jhalawan hills. For many years the country remained firmly attached to the Khāns of Kalāt; but the struggles which took place during Mir Khudādād Khān's reign involved the Jhalawan tribesmen also and resulted in the strangling of their leader, Taj Muhammad, Zarakzai. In 1869 Jam Mir Khan of Las Rela, who had caused the people of Jhalawan to rebel under Nür-ud-din Mengal, received a severe defeat in a battle near Khuzdăr, when he lost seven guns. Owing to its remoteness from Quetta, the Jhalawan country did not come so quickly and completely under control after the British occupation as the Sarawan country; and an outbreak which began in 1893 under the leadership of Gauhar Khan, the Zahri chief, simmered till 1895, when it was put down by the Kalat State troops at the fight of Garmap, in which both Gauhar Khan and his son lost their lives.

The country is comparatively rich in archaeological remains. They include many gabrbands or embankments of the fire-worshippers; a

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curious vaulted burial chamber cut in the slope of the hill near Pandran; and several tombs which indicate a system of superterrene burial. Interesting earthen vessels, and stones bearing Kufic inscriptions, have been excavated from the numerous mounds in the country.

Ihalawan contains no large towns and only 200 permanent villages. KHUZDAR is the head-quarters station. Most of the people live in blanket tents or mat buts. The inhabitants, the Population. majority of whom are Brahuis with here and there a few Baloch, lats, and Loris, number (1901) 224,073, or about 11 persons to the square mile. They include the direct subjects of the Khān, such as Kūrds. Nighāris, Gazgis, and Nakībs, who cultivate lands in the Khān's niābats: and tribal units. The principal tribes are the Zahri (49,000), the Mengal (69,000), the Muhammad Hasni (53,000), and the Bizanjau (14,000). Among minor tribal groups may be mentioned the Sājdi, Rodeni, Rekizai, Gurgnāri, Sumalāri, Kambrāni, Mīrwāri, and Kalandarāni. The leading chief of the Ihalawan tribes belongs to the Zarakzai clan of the Zahri tribe. A few Hindus carry on the trade of the country. Most of the people speak Brāhuī; a few speak Sindī; the remainder, especially on the southwest, Baluchi. The majority of the people are Sunni Muhammadans, but some are Zikris, especially the Saidis. Agriculture and flockowning are the only occupations. Every year in September a large migration of nomads takes place to Kachhi and Sind, where they engage in harvesting and return to the highlands in spring.

Cultivation is confined to the valleys and the flats beside the river courses. Most of the cultivated tracts consist of 'dry-crop' areas, dependent on flood-water which is held up by embankments. In comparison with the Sarawān country, irrigation is scarce. It is obtained from springs, from kārez, which number only thirty-five, and from channels cut from the rivers. Most of the springs and kārez occur in Upper Jhalawān. Tracts irrigated by river water include Zahri, part of Gidar, Khuzdār and Zidi, Karkh and Chakku, the valleys of the Mūla and Kolāchi rivers, and Mashkai. Well-irrigation is unknown. The soil has a considerable mixture of sand, and is but moderately fertile. 'Dry-crop' areas produce better crops than 'wet' areas, unless the latter are highly manured.

The spring harvest is the most important, consisting chiefly of wheat. On the south-west, however, wheat suffers from the damp caused by the sea-breezes, and its place is taken by barley. Rice is grown along the banks of the Mūla and Kolāchi rivers, and, with jowār, forms the chief autumn harvest. Dates are grown in Mashkai. Cultivation is gradually extending, but the people prefer flock-owning to cultivation, and progress is slow. Jhalawān is in fact a vast grazing tract.

The bullocks are hardy but small, and a good many are bred in the

lower tracts. Sheep and goats are found in vast numbers. The Khorāsāni variety of sheep is preferred to the indigenous kind, owing to its larger tail. Most of the camels are transport animals, and camelbreeding is almost entirely confined to the Pab range. A few horses are kept in the north, but they are not so numerous as in the Sarawān country.

Lead-smelting was carried on in former days at Sekrān near Khuzdār, and Masson mentions the employment of 200 men in 1840, but the industry has now been abandoned. Little is known of the other minerals of the country. Ferrous sulphate (melanterite), known locally an zāgh or khāghal, has been found in the Ledav river and near Zahri. A soft ferruginous lithomarge, known as mak, is used as a mordant in dyeing.

The manufacture of coarse woollen rugs in the dari stitch, and of felts, ropes, and lags, is general; good pile carpets are woven for private use by the Bādinzai Kalandarānis of Tūtak

Trade and communications. There is a large export to Sind of matting and materials for mat-making, and many of the people entirely depend on this source of livelihood. The chief centres of trade are Surah, Khuzdar, Nal, Wad, and Mashkai, but trading is much hindered by the levy of transit dues by both the Kalat State and local chiefs. Chi, wool, live sheep, and materials for mats are the principal exports, coarse cloth, sugar, mustard oil, and joseur are imported.

Railways and metalled roads do not exist. Travellers follow cameltracks, the most important of which are the Kalāt-Bela route, known as the Kohan wāt, via Khuzdār, Wad, and the Bārān Lak; the Kalāt-Panjgur route via Sūrāb; and the Kachhi Makrān route via the Mūla Pass, Khuzdār, Nāl, and Mashkai. An uninetalled road is now under construction between Kalāt and Wad.

Drought is frequent, owing to the shortness of the rainfall, but the proximity of Sind enables the inhabitants to find a ready means of

Famine. support at such times. During a drought of exceptional severity, which began in 1897 and cultaken then daughters of marriageable age to Sind, where the high bride prices obtained for them enabled the parents to tide over the bail times. Cases have also been known in which servile dependants were exchanged for a maund of dates.

Since 1903 an officer, known as the Native Assistant for the Jhalawān country, has been posted to Khuzdār by the Khān of Kalāt under the Administration.

Supervision of the Political Agent. He is supported by twenty levies, and decides petty intertribal and other cases with the assistance of jirgas. For administrative purposes,

the country consists of areas subject to the Khān of Kalāt and of tribal areas. The former include the miābats of Sūrāb and Khuzdār, each of which is in charge of a naib. In Sūrāb there is a jā-nashīn, or assistant, stationed at Mashkai; and in Khuzdār three jā-nashīns, stationed at Karkh or Karu, Zidi, and Bāghwāna. The Khān's interests in Zahri are supervised by a daroga. His rights at Gazg are leased to a farmer with those of Johān in the Sarawān country. In former times the Khān's naibs exercised a general control and communicated the Khān's orders to the tribal chiefs; but the latter are now largely controlled by the Political Agent through the Native Assistant in the Jhalawān country. They decide cases occurring among their tribesmen according to tribal custom. In civil suits, a custom has been established of taking one-fourth of the value of the property decreed.

Land revenue, in the case of the subjects of the Khān, is always taken in produce, the rates generally varying from one-fourth to one-eighth. Cesses, known as rasūm or lawāzimāt, are also levied, by which the State share is largely increased. Transit dues, and fines known as bādi hawai, constitute the other sources of revenue in the niābats. Contrary to the custom in the Sarawān country, the Jhalawān chiefs exact mālia from their tribesmen, generally in the shape of one sheep per household annually. Sheep are also taken on marriages and other festivals in a chief's household, and on the occurrence of deaths. These payments are known as bijār and purs. Some of the chiefs also levy octroi and transit dues. The value of the total revenue from the Khān's niābats varies with the agricultural conditions of the year. In 1903-4 the approximate amounts received were as follows: Sūrāb with Mashkai, Rs. 15,500; Khuzdār, Rs. 14,200; Zahri, Rs. 1,300; total, Rs. 31,000.

In 1894, owing to the unsatisfactory state of affairs in Jhalawān, the Khān sanctioned payments aggregating about Rs. 40,000 per annum to the chiefs of the principal tribes, in return for which they were made responsible for the peace of their respective areas. This sum included the allowances of the Rind and Magassi chiefs in Kachhi. A sum of Rs. 3,600 is also contributed by the British Government. At this time tribal levy posts of ten men each were also instituted at Zahri and Sārūna. A post of ten men has since been stationed at Sūrāb, besides the Native Assistant's levies at Khuzdār. The naib of Khuzdār is assisted by forty-five levies for revenue and police purposes, and the naib of Sūrāb by twenty-five men; but these numbers are increased or reduced as occasion requires. The naibs and stronger chiefs generally have stocks in their forts or houses in which offenders are placed.

A few of the chiefs employ Afghan mullas for teaching their sons;

MERCHANICAL PROPERTY.

otherwise education is unknown. The people are very superstitious. and have a firm belief in the influence of evil spirits, to whom diseases are generally attributed. A few resort to the dispensary at Kalāt for medical treatment. They are well versed in the use as remedies of the medicinal drugs which the country produces in large quantities. The sick are frequently branded; for fevers the usual remedy is to wrap the patient in the fresh skin of a sheep or goat. Inoculation by Saivids is general, except in the case of the Zikris.

Ihālawār. - Prānt or division of Kāthiāwār. Bombay. It takes its pame from the Ihala Rainuts, who own the principal estates, and includes the States of DHRANGADHRA, the chief of which is the recognized head of the Thala clan, LIMDI, WADHWAN, and other minor States. The area is about 2.078 square miles. The nonulation in 1001 was 105,138, the density being 76 persons per square mile. The revenue in roon-a amounted to Rs. 23.59.580.

Ihālawār State. - State in the south-east of Rainutāna, with an area of about 810 square miles. It consists of two separate tracts. The smaller, barely 14 square miles in extent, is known as Kirpapur, and is quite unimportant. The main tract lies between 23° 45' and 24° 41' N. and 75° 28' and 76° 15' E., and is bounded on the north-east and north by Kotah; on the north-west and west by the Rampura-Bhanpura district (of Indore), and the Agar taksil (of Gwalior); on the southwest by Sitemau and Jaora, on the south by Dewas and Agar; and on the east by Pirawa (of Tonk) and Rampura-Bhanpura. In shape it

resembles the letter 5, with a length of about 85 miles Physical . and a breadth varying from 3 to 17 miles. aspects. country rises gradually from 1,000 feet above sealevel in the north to 1,500 feet in the south. A narrow range of low and fairly wooded hills runs south-east past the town of Ihalrapatan in the north, and the southern half of the State is generally hilly, and intersected by small streams, but the rest of the country is a rich undulating plain. The principal rivers are the Chambal and the Kālī Sind, but neither ever actually enters the State, the former flowing for a miles along the south-western, and the latter for about 17 miles along the north eastern boundary. The Chhoti Kali Sind enters the State in the south west, and after flowing for about 20 miles through the centre of the Gangdhar tahsil, joins the Chambal. The Au or Ahu river rises near the cantonment of Agar and flows north, generally along the borders of Jhālawār, till it reaches the Mukandwāra range of hills in the extreme north of the State, when it turns abruptly to the south-east, and about 8 miles lower down joins the Käll Sind near Gägraun.

The rocks of Jhālawār consist generally of shales, limestone, and sandstone belonging to the Upper Vindhyan group.

Besides the usual small game, antelope and 'ravine deer' are found

in the plains. Tigers are occasionally met with in the forests near the capital, but leopards and wild hog are fairly common. Sāmbar (Cerous unicolor), chital (Cerous axis), and nilgai (Boselaphus tragocamelus) frequent certain localities, but only in limited numbers.

The climate resembles that of Mālwā, and is generally healthy. The hot season is less severe than that of Northern and Western Rājputāna, and though hot winds sometimes blow in April and May, the nights are usually cool and refreshing. The annual rainfall for the State averages 37 inches, of which about 25 are received in July and August, and ro in June and September. The rainfall has varied from about 13½ inches at the capital in 1877 to over 68 inches at Gangdhār (in the south-west) in 1900.

The ruling family belongs to the Ihala clan of Raiputs, which has given its name to the State. One Raidhar is said to have founded the petty chiefship of Halwad in Kāthiāwār about 1488: History. and the eighth in succession to him had a son, Bhao Singh, who left his own country and proceeded first to Idar, and next to Aimer, where he married the daughter of the Sesodia Thakur of Sawar, by whom he had a son. Mādho Singh, and a daughter. Nothing more is known of Bhao Singh; but Mādho Singh proceeded to Kotah in the time of Mahārao Bhīm Singh, gained the favour of that chief, and obtained the estate of Nanta with the post of Faujdar or commander of the troops as well as of the fort. About the same time his sister was married to Arjun Singh, the eldest son of the Kotah chief; and this family connexion, while adding to Mādho Singh's authority, procured for him the respectful title of māmā, or maternal uncle, from the younger members of the Kotah family. Madho Singh was succeeded as Fauidar by his son Madan Singh, and the post became hereditary in the family. Himmat Singh followed Madan Singh, and was in turn succeeded in 1758 by his famous nephew, Zālim Singh, whom he had adopted, and who was at the time only eighteen years of age. Three years later Zālim Singh was the means of securing victory for the troops of Kotah over the army of Jaipur at Bhatwara; but he afterwards fell into disfavour with his master (Mahārao Gumān Singh) in consequence of some rivalry in love, and, being dismissed from his office, he migrated to Udaipur, where he did good service, and received from the Mahārānā. the title of Raj Rana. Later on, he retraced his steps to Kotah, where he was not only pardoned but reinstated in his old office; and when the Mahārao was on his deathbed, he sent for Zālim Singh and committed his son, Umed Singh, and the country to his charge. From this time (1771) Zālim Singh was the real ruler of Kotah. He raised it to a state of high prosperity, and under his administration, which lasted for more than fifty years, the Kotah territory was respected by all parties. Through him a treaty was made with the British Government

in 1817, by which Kotah was taken under protection; and by a supplementary article, added in 1818, the entire administration was vested in Raj Rana Zalim Singh and his heirs in regular succession and perpetuity. Zālim Singh, the Muchiavelli of Rājasthān, as Tod calls him, died in 1824, and his son, Madho Singh, received undisputed charge of the administration. His unfitness for office was a matter of notoriety, and he was in turn succeeded by his son. Madan Singh. In 1834 disputes between the chief of Kotah and his minister were constantly occurring, and there was danger of a popular rising for the expulsion of the latter. It was therefore resolved, with the consent of the Mahārao of Kotah, to dismember the State and to create the new principality of Ihālawar as a separate provision for the descendants of Zālim Singh. Seventeen districts, yielding a revenue of 12 lakhs, were made over to Madan Singh and his heirs and successors, being the descendants of Rāj Rānā Zālim Singh, according to the custom of succession obtaining in Raiwara; and by a treaty dated 1838 this new principality was taken under the protection of the British Government, and agreed to supply troops according to its means, and pay a tribute of Rs. 80,000. The Thalawar State thus dates from 1838, and its first chief, Madan Singh, on assuming charge, received the title of Mahārā; Rānā, was entitled to a salute of 15 guns, and was placed on the same footing as the other chiefs of Rājputāna. He died in 1845 and was succeeded by his sor Prithwt Single, who, during the Mutiny of 1857-8, did good service by conveying to places of safety several Europeans who had taken refuge in his State. He received the usual sanad guaranteeing to him the right of adoption in 1862, and on his death in August, 1875, was succeeded by his adopted son, Bakht Singh, of the Wadhwan family in The latter, in accordance with family custom, which enjoined that only the four names of Zālim Singh, Mādho Singh, Madan Singh, and Prithwi Singh should be assumed by the rulers of this house. took the name of Zalim Singh. As he was a minor, the administration was carried on by a Political Superintendent assisted by a Council, and he himself joined the Mayo College at Ajmer. He attained his majority in 1883 and was invested with governing powers (subject to certain restrictions) in 1884; but as he failed to administer his State in accordance with the principles laid down for his guidance, the Government of India was compelled to withdraw his powers in 1887, and to restore the arrangements which were in force during his minority. In 1802 Zalim Singh promised amendment, and was entrusted with the charge of all the departments except that of land revenue, which was to remain under the Council, while in September, 1894, this reservation was withdrawn and he obtained full powers. But he failed to govern the State properly, and was deposed in 1896; he now lives at Benares, and receives an allowance of Rs. 30,000 a year. Zālim Singh had no sons;

and there being no direct descendants of his namesake, the great regent, the Government of India restored to Kotah part of the territories which had been made over in 1848 to form the principality of Thalawar, and formed the remaining districts into a new State for the descendants of the family to which the first Rai Rana (Zalim Singh) belonged, and for those Sardars and others whose allegiance it was considered undesirable to transfer to Kotah. In 1807 Kunwar Bhawani Singh, son of Thakur Chhatarsal of Fatehpur, and a descendant of Madho Singh. the first Ihāla Fauidār of Kotah, was selected by Government to be the chief of the new State. Arrangements were completed by the end of 1808, and the actual transfer of territory took place on January 1, 1800. from which date the new State of Ihalawar came into existence. Bhawāni Singh was installed as ruler, under the title of Rāi Rānā, with a salute of 11 guns, and was at the same time invested with full powers of administration. The tribute payable to the British Government is now Rs. 30,000 a year. His Highness was educated at the Mavo College. The principal events of his rule have been the famine of 1890-1900; the adoption of Imperial postal unity in 1900; the introduction of British currency and weights in 1901; and his visit to Europe in 1004.

The places of archaeological interest are the remains of the old city of Chandrāvati close to Jhālrapātan Town, and the rock-cut stūpas at the village of Kholvi¹ in the Dag tahstl in the south. The latter are interesting as being probably the most modern group of Buddhist caves in India.

The number of towns and villages in the State is 410, and the population at each of the three enumerations was: (1881) 340,488, (1891) 343,601, and (1901) 90,175. The decrease since 1891 was of course due mainly to the remodelling of the State in 1899, but to a considerable extent also to the famine of 1899–1900 and the severe epidemic of malarial fever which followed. Although vital statistics in Native States are not very reliable, it may be mentioned that in the entire State in 1900 only 941 births were registered, while deaths numbered 13,872. The State is divided into five lahsils and possesses two towns, JHĀLRAPĀTAN and the chhaoni or cantonment of the same name, both administered as municipalities. The table on the next page gives the chief statistics of population in 1901.

In 1901 Hindus numbered 78,107, or 86 per cent. of the population, the majority being Vaishnavas; Musalmāns, 8,845, or nearly 10 per cent., mostly of the Sunni sect; and Jains, 3,129, or 3 per cent. The languages mainly spoken are Mālwī (or Rāngrī) and Hāraotī, both dialects of Rājasthānī.

¹ Archaeological Survey of Northern India, vol. ii, pp. 280-8; and J. Fergusson, History of Indian and Eastern Architecture (1889), pp. 132 and 162.

| Taksil. | Area in square miles, | Towns. | Allia Villa | Population | Percentage of variation in popula- tion between 1891 and 1991. | Number of persons able to read and write. |
|-------------|--------------------------------|--------|------------------------------|--|---|---|
| Pātan | 744 131 80 169 187 | 2 | 127 60 41 71 109 | 37,016 9,313 9,240 16,167 18,439 | - 38-4 - 48-7 - 41-3 - 38-3 - 40-1 | 1,881 394 154 329 330 |
| State total | R10 | 3 | 408 | 90,175 | - 40-3 | 3,088 |

Among castes and tribes the most numerous are the Sondhias, who number 22,000, or 24 per cent, of the total population. They claim to be Rājputs, but are probably of mixed descent, they are described as idle, ignorant, immoral, and given to cattle-lifting. Next come the Chamārs (workers in leather and agriculturists), forming 8 per cent, of the total: Brāhmans, some of whom are cultivators, while others are engaged in religious or menial services, 7 per cent.; Mahājans (bankers and traders), 6 per cent; Balais (cultivators, workers in leather, and village chaukīdārs) and Gūjars (cattle breeders and dealers, and agriculturists), each between 4 and 5 per cent. More than 54 per cent, of the people live by the land, and many others combine agriculture with their special occupations.

The soils may be divided into three classes: namely, kālī, a rich black loam; māl, a loam of a lighter colour but almost as fertile, and harlt, often of a reddish colour, generally stony and sandy, and always shallow. Of these classes, it is estimated that the second supplies about one half and the others about one fourth each of the cultivable area.

Agricultural statistics are available only for the khālsa portion of the State, the area of which is about 558 square nules. From this must be deducted 158 square nules occupied by forests, rivers, towns, roads, &c., leaving 400 square nules available for cultivation. The average net area cropped during the last four years has been about 125 square nules, or 31 per cent, of the khālsa area available for cultivation. The principal crops and the area (in square nules) ordinarily cultivated in each case are: jowar, 85., maize, 14. cotton, 8; and poppy, gram, and wheat, each about 7.

Cattle are plentiful and of a good stamp, being largely of the Mālwā breed. The State used to be noted for its ponies, but excessive mortality in the recent famine has greatly reduced their numbers. The goats and sheep are of the ordinary type, and are largely kept to provide wool, meat, milk, and manure. Cattle fairs are held yearly at Ihālrapātan town at the end of April and beginning of November.

The area ordinarily irrigated is about 19 square miles. Irrigation is chiefly from wells, of which more than 6,000 are in working order, about 1,350 being masonry. Leathern buckets drawn up with a rope and pulley by bullocks are always used for lifting the water, except when the latter is near the surface and the area to be irrigated is small, when a dhenkli, or long pole supported by a prop, with a jar or bucket at one end and a weight at the other, is used.

Forests cover an area of nearly 8 square miles, and are looked after by a department called 1) ungar-Hagar. The principal trees are the dhao (Anogeissus pendula), dhak (Butea frondosa), gurjan (Dipterocarpus turbinatus), and tendu (Diospyros tomentosa), and such fruit trees as the bel (Aegle Marmelos), mango, and mahua (Bassia latifolia). The forest income in 1903-4 was about Rs. 4,300, and the expenditure Rs. 1,800.

The hills near the capital contain large quantities of excellent sandstone, mostly of a greyish colour, but in places almost white or deep red. The stone is much used for building purposes. Iron and copper have been found in places, but these minerals are not now worked.

The manufactures are unimportant, and consist of rough cotton fabrics, floorcloths, brass utensils, knives, and sword-blades. The chief exports are opium (to Ujjain and communications. Indore), oilseeds, and cotton while the chief imports are food-grains (mainly from Hāraoti), salt, sugar, cloth, and metals.

There is at present no railway in the State, but the Nagda-Muttra line, now under construction, will pass through three tahsils. The total length of metalled roads is 64 miles, and of unmetalled roads 72 miles. The State adopted Imperial postal unity in 1900, and now contains six British post offices, two of which (at Jhālrapātan and the chhaoni) are also telegraph offices.

Owing to its geographical position, the State has generally a very good rainfall, and scarcities and famines are uncommon. Indeed, during the last hundred years the only famine appears to have been that of 1899–1900. The rain practically ceased after July, 1899, with the result that the autumn crop failed almost entirely, and there was considerable scarcity of fodder. The Darbār started numerous works and poorhouses, at which nearly 1½ million units were relieved at a cost exceeding 2 lakhs, and, besides making liberal advances to agriculturists, granted remissions and suspensions of land revenue.

The State is governed by the Rāj Rānā, with the assistance of a Dīwān. In charge of each of the five tahsīls is a tahsīldār, who is assisted by a naib-tahsīldār in the large Pātan tahsīl.

In the administration of justice the courts follow generally the Codes

in force in British India. The lowest courts are those of the tahsildārs; they decide civil suits not exceeding Rs. 100 in value, and can sentence to one month's imprisonment and fine up to Rs. 30. Over them are the Disvāni Adālat, which tries civil suits not exceeding Rs. 5,000 in value, and the Faujdārī Adālat, which can pass a sentence of two years' imprisonment and fine up to Rs. 300. The next court is the Appellate Court; its powers on the civil side are unlimited, while on the criminal side it can pass any sentence allowed by law, but its proceedings in capital cases require the confirmation of the Mahakma khās, which is presided over by the Rāj Rānā, and is the final appellate authority in the State.

The normal revenue is at present about 4 lakhs a year, the chief sources being land (3 lakhs) and customs (Rs. 60,000). The ordinary expenditure is slightly less than the revenue: and the main items are army and police (Rs. 75,000), revenue and judicial staff (Rs. 72,000), palace and privy purse (Rs. 45,000), public works and tribute to Government (Rs. 30,000 each), and stables (about Rs. 20,000). The State is free from debt.

Jhālawār had formerly a silver and copper coinage of its own, known as *Madan shāhi* (after its first chief), and up to about 1893 the value of the local rupee was always equal to, and sometimes greater than, that of the British coin. Subsequently it began to decline in exchange value, till, in 1899, 123 *Madan shāhi* rupees exchanged for roo British. The Rāj Rānā thereupon decided to abolish the local coinage, and introduce British in its stead as the sole legal tender in the State; and this was carried out, with the assistance of Government, between March 1 and August 30, 1901.

The State may be divided into two main areas: namely, that paying revenue to the Darbar and called khalsa, and that granted revenue free to racirdars and muandars. The former occupies about 558 and the latter 252 square miles. The majority of the jugardars pay a small tribute yearly or every second year to the Darbar, and some have to supply horses and men for the service of the State. Mulfi lands are those granted for religious or charitable purposes or in lieu of pay, and some of the holders have to pay certain dues (sisāla) every other year. In the khālsa area there are two tenures; namely, khātedāri, which is the same as ryotwari, and watandari, which is somewhat similar to zamindari. The former prevails in the Patan tahsil; each individual holder is responsible directly to the State for the revenue of his holding. and possesses certain rights which are heritable, and which can be mortgaged but not sold. In the rest of the State, the other tenure prevails. The watendars are members of the village community, and their interests are hereditary and transferable, and not lost by absence. They are responsible for payment of the State demand, and arrange among themselves for the cultivation of the village lands and the distribution of the revenue.

Formerly the land revenue was paid in kind; but in 1805 Zālim Singh substituted a money-rate per bīgha for each class of soil, and his rates remained nominally in force till the present settlement was made in 1884. This settlement was concluded directly with individual holders (khātedārs) in the Pātan tahsīl, and with the watandārs in the rest of the State. The rates per acre vary from about Rs. 5 to over Rs. 23 for 'wet' land, and from about 13 annas to Rs. 6 for 'dry' land, but the pān or betel-leaf gardens near the capital pay more than Rs. 44 per acre.

The military force consists of 100 cavalry, 71 gunners, and 420 infantry, and there are 20 field and 25 other guns classed as serviceable. The majority (about 300) of the infantry are employed on police duties in the districts.

The police force proper numbers 366 officers and men, 30 of the latter being mounted, distributed over seven police stations. There are also 166 village *chaukīdārs* who hold lands revenue-free for their services.

Besides the Central jail at the *chhaoni*, there are lock-ups at the head-quarters of each *tahsīl*, in which persons sentenced to imprisonment not exceeding one month are confined.

In regard to the literacy of its population, Jhālawār stands seventh among the twenty States and chiefships of Rājputāna, with 3-4 per cent. (6-4 males and 0-2 females) able to read and write. There are now nine schools in the State, and the daily average attendance during 1904-5 was 424. The only notable institution is the high school (at the chhaoni), in which English, Urdū, Hindī, and Sanskrit are taught. The other schools are all primary, and include one for girls (attended by twelve pupils) and one specially for Sondhias. No fees are charged anywhere, and the yearly expenditure on education is about Rs. 6,000.

In the beginning of 1904 there were four hospitals and two dispensaries, but one of the latter was closed during the year. The hospitals have accommodation for 34 in-patients. During 1904 the number of cases treated was 38,177 (189 being those of in-patients), and 1,533 operations were performed.

Vaccination was commenced about 1870-1, but is nowhere compulsory. A staff of two vaccinators is kept up, and in 1904-5 the number of persons successfully vaccinated was 2,114, or more than 23 per 1,000 of the population. The total State expenditure on medical institutions and vaccination, including a share of the pay of the Agency Surgeon and his establishment, is about Rs. 17,000.

[Rājputāna Gazetteer, vol. ii (1879, under revision); H. B. Abbott, Settlement Report (1885); P. A. Weir and J. Crosts, Medico-topographical Account of Jhālawār (1900).]

Jhalera. - Thakurāt in the BHOPAL AGENCY, Central India.

Jhalida.—Town in the head-quarters subdivision of Manbhum District, Bengal, situated in 23° 22′ N. and 85° 59′ E. Population (1901), 4,877. Jhalida was constituted a municipality in 1888. The income and expenditure during the decade ending 1901–2 averaged Rs. 3,000. In 1903–4 the income was Rs. 3,700, mainly from a tax on persons (or property tax); and the expenditure was Rs. 3,400. Jhalida is a centre of the lac and cuttery industries.

Jhalod.—Town in the petty division (petha) of the same name in the Dohad tāluku of the Pānch Mahāls District, Bombay, situated in 23°6′ N. and 74°9′ E. Population (1901), 5,917. The inhabitants are mostly Bhils, Ghānchis, and Kunbis. There is an export trade in grain, pottery, cotton cloth, and lac bracelets in imitation of the costly ivory Ratlām bracelets. Flagstone is also exported in large quantities. The town contains a dispensary and six schools, four for boys and two for girls, attended by 223 and 88 pupils respectively.

Jhairapatan Chhaoni (or cantonment).—Chief town and official capital of the State of Ihālawār, Rājputāna, situated in 24° 36' N. and 76° 10' E., on a rising stretch of rocky ground over 1,000 feet above the sea, between the fort of Gagraun (in Kotah) and the town of Jhalrapātan. The chhaoni, as it is always called locally, was founded in 1701 by Zalim Singh, regent of Kotah, and was at first merely a permanent camp, which he made his head-quarters on account of its central and strategical position. Houses gradually took the place of tents and huts, and in course of time the old camp attained the importance of a town. The population in 1901 numbered 14,315, of whom 9.501, or 66 per cent., were Hindus, and 4.402, or 31 per cent., Musalmans. The Raj Rana's palace is enclosed by a high masonry wall forming a square, with large circular bastions at each corner, and two semicircular ones in the centre of each side of the square. The principal entrance is on the eastern side, and the approach to it is along the main street of the bazar running due east and west. About a mile to the south west is a sheet of water, below which are several gardens, and ir one of these is the summer residence of the chief, surrounded by a canal filled with water from the tank. The samtation, lighting, water supply, and roads of the chhaom are looked after by a municipal committee which was established about 1876-7. The receipts, derived mainly from the rent of State houses and shops and the sale of unclaimed property, average about Rs. 5,000 yearly, and the expenditure is slightly less. Besides the palace, law courts, and public offices, the town contains a combined post and telegraph office, a Central jail. a couple of schools, and a hospital. The jail has accommodation for 164 prisoners, and the daily average number in 1904 was 79. The prisoners are employed in making carpets, blankets, cotton cloth, shoes.

&c., and in printing, bookbinding, and gardening. The jail costs about Rs. 6,200 a year, and the manufactures bring in about Rs. 1,150. Of the schools, one is for boys and the other for girls. The former is a high school, with a daily average attendance in 1904-5 of 164. The hospital has accommodation for 14 in-patients.

Jhāirapātan Town (locally called Pātan).—Head-quarters of the Pātan tahsīl and the commercial capital of the State of Jhālawār, Rājputāna, situated in 24° 32′ N. and 76° 10′ E., at the foot of a low range of hills and on the left bank of a stream known as the Chandrabhāga. Population (1901), 7,955. Several modes of deriving the name are current. Some say the word means the 'city of bells,' and that the old town was so called because it contained 108 temples with bells; others that it is the 'city' (pātan) of 'springs' (jhālra), the latter abounding in the rivulet above mentioned; while others again say that the word jhālra refers to the Rājput clan (Jhāla), to which the founder of the new town belonged. The town possesses a combined post and telegraph office, a small lock-up for prisoners sentenced to short terms, a vernacular school attended by about 57 boys, and a dispensary for out-patients.

A little to the south of the present town there formerly existed a city called Chandrāvati, said to have been built by Rājā Chandra Sena of Mālwā, who, according to Abul Fazl, was the immediate successor of the famous Vikramāditya. General Cunningham visited the site in 1864-5, and wrote:—

'Of its antiquity there can be no doubt, as I obtained several specimens of old cast copper coins without legends, besides a few of the still more ancient square pieces of silver which probably range as high as from 500 to 1000 B.C. These coins are, perhaps, sufficient to show that the place was occupied long before the time of Chandra Sena; but as none of the existing ruins would appear to be older than the sixth or seventh century A.D., it is not improbable that the city may have been refounded by Chandra Sena, and named after himself Chandravati. I think it nearly certain that it must have been the capital of Ptolemy's district of Sandrabatis, and, if so, the tradition which assigns its foundation to the beginning of the Christian era would seem to be correct.'

This ancient city is said to have been destroyed, and its temples despoiled, in the time of Aurangzeb, and the principal remains are now clustered together on the northern bank of the Chandrabhāga stream. The largest and the earliest of these is the celebrated *lingam* temple of Sītaleswar Mahādeva, which Mr. Fergusson described as 'the most elegant specimen of columnar architecture' that he had seen in India, an opinion fully concurred in by General Cunningham. The date of this temple was put by them at about A.D. 600. It was just to the Vol. XIV.

north of these remains that Zālim Singh, the famous minister of Kotah, founded the present town in 1796, including within its limits the temple of Sāt Saheli (or 'seven damsels') and a Jain temple which formerly belonged to the old city. To encourage inhabitants, Zālim Singh is said to have placed a large stone tablet in the centre of the chief bazar, on which was engraved a promise that new settlers would be excused the payment of customs dues, and would be fined no more than Rs. 1-4-0 for whatever crime convicted. These privileges were annulled in 1850, when the Kāmdār (minister) of Mahārāj Rānā Prithwi Singh had the tablet removed, and thrown into a tank, whence it was dug out about 1876.

According to Tod, the town was placed under municipal government at its foundation in 1796, but the fact is not mentioned on the stone tablet above referred to. The present municipal committee was formed about 1876, and attends to the lighting and sanitation of the place, besides disposing of petty cases relating to easements. The mome and expenditure are respectively about Rs. 1,000 and Rs. 2,000 yearly, the difference being provided by the State. The town is well and compactly built, and is surrounded on all sides save the west by a substantial masonry wall with circular bastions. The streets are wide and regular, intersecting each other at right angles, and contain many large and handsome buildings. On the west is a lake formed by a solid masonry dam, about two-thirds of a mile long, on which stand sundry temples and buildings, and the lands in the neighbourhood and the well shaded gardens within and around the town walls are irrigated by means of a canal about 2 miles long.

[]. Tod, Rajasthan, vol. ii;]. Fergusson, Picturesque Illustrations of Ancient Architecture in Hindustan and History of Indian and Eastern Architecture; and the Archaeological Survey of Northern India, vols. ii and xxiii.]

Jhālū.—Town in the District and tahsil of Bijnor, United Provinces, situated in 29° 20′ N. and 78° 14′ E., 6 miles south-east of Bijnor town. Population (1901), 6,444. Under Akbar it was the head-quarters of a mahāl or pargana. It is administered under Act XX of 1856, with an income of about Rs. 1,000. It contains a primary school with 113 pupils, and three aided schools with 62 boys and 35 girls.

Jhampodad. Petty State in Kathiawan, Bombay.

Jhang District.—District in the Multan Division of the Punjab, lying between 30° 35' and 32° 4' N. and 71° 37' and 73° 31' E., with an area of 6,652 square miles. It is bounded on the north-west by the District of Shahpur; on the north-east by Shahpur and Gujran-wala; on the south-east by Montgomery; on the south by Multan and Muzaffargarh; and on the west by Mianwali. It consists of an

irregular triangle, artificially constituted for administrative purposes from portions of three separate tracts. Its eastern half embraces a large part of the dorsal ridge in the Rechna Doāb; thence it stretches across the Chenāb into the wedge of land between that river and the Jhelum,

whose waters join the Chenab a few miles below the town of Ihang: while westward again the boundary runs, beyond the joint river, some distance into the That or desert of the Sind-Sagar Doab. Southward the District stretches almost to the confluence of the Chenab with the Rāvi, but does not actually reach the latter river. rivers are strips of fertile lowland, rising with a more or less defined bank into the uplands of the Doabs. The Bar or upland plain of the Rechna Doab, until recently a desert inhabited only by nomad tribes, has been changed into one of the most fertile tracts in India by the CHENAR CANAL. The nomads of the Bar and immigrants from other parts of the Province have been settled on the newly irrigated land; and, for the proper administration of the tract, it has been found necessary to divide Jhang District into two, the eastern and south-eastern portions being formed into a separate District with its head-quarters at LYALLPUR. The present article, for the most part, describes Thang as it existed before the change.

North-west of the Chenāb, the upland, which runs like a wedge between the lowlands of the Chenāb and Jhelum, and was once a desert like the Bār of the Rechna Doāb, is being fertilized by the Jhelum Canal. West of the Jhelum river the alluvial plain after a few miles rises abruptly into the desert of the Sind-Sāgar Thal. With the exception of some isolated low hills on either side of the Chenāb at Kirāna and Chiniot, the District is almost flat.

Jhang consists entirely of alluvium, with the exception of two small patches of quartzite which form the Kirāna and Chiniot hills. These are geologically interesting, as probably belonging to the Alwar quartzite of the Delhi system, and thus constituting the most northerly known outcrops of rocks of Peninsular type.

Before the foundation of the Chenab Canal and Colony, the District was the Bar tract par excellence; but the flora of that tract is fast giving way to close cultivation, and saltworts are being driven out by irrigation. The annual weeds, however, are still mainly those of the West Punjab flora. Along the rivers are found the usual coverts (belas) of reed-grasses (Saccharum, &c.) and the lesser tamarisks (jhau and pilchi). The date-palm is grown near the Jhelum, but the produce is usually inferior.

The wolf, hyena, and wild cat are found in decreasing numbers as cultivation advances. Wild hog and 'ravine deer' (Indian gazelle) are confined to the wilder parts of the lowlands.

The climate of Jhang is that of the South-West Punjab, the rainless tract comprising Multan, Montgomery, and Dera Ismail Khān, which is said to have the highest mean temperature in India between June and August. The dry air makes the District unusually healthy, except in the canal tracts, where it is malarious and trying to Europeans. The annual rainfall is light, ranging from 8 inches at Shorkot to 11 at Chiniot.

The Districts of Jhang and Montgomery were the scene of Alexander's operations against the Malli in 325 B.C., and Shorkor has been identified by some authorities with one of the towns

captured by some authorities with the tot the towns withdrawal, the country seems to have come successively under the sway of the Mauryas (c. 321-231 B.C.), the Graeco-Bactrians (c. 190 B.C.), the Indo-Parthians (c. 138 B.C.), and the Kushans or Indo-Scythians (c. A.D. 100-250). About A.D. 500 it was conquered by the White Huns, whose capital of Sākala should, according to recent authorities, be identified with Chinioi or Shāhkot, a village in Gujrānwāla District, or with Siālkot. Their power was short-lived, and at the time of Hiuen Tsiang's visit (A.D. 630) the District was included in the kingdom of Tsehkia, the capital of which was close to Sākala. In the tenth century it was subject to the Brāhman kings of Ohind and the Punjab, and under the Mughals it was included in the Sūhah of Lahore.

In modern times the history of Thang centres in the tribe of the Siāls, who ruled over a large tract between Shāhpur and Multān, with little dependence on the imperial court at Delhi, until they finally fell before the power of Ranift Singh. The Siāls are Muhammadans of Rainut descent, whose ancestor, Rai Shankar of Daranagar, migrated early in the thirteenth century from the Gangetic Doab to Jaunnur. His son, Sial, in 1243 left his adopted city for the Punjab, then overrun by Mongol hordes. Such emigrations appear to have occurred frequently at the time, owing to the unsettled state of Northern India. During his wanderings in search of a home, Siāl fell in with the famous Muhammadan saint Baba Farid-ud-din Shakargani, of Pākpattan, whose eloquence converted him to the faith of Islam. He afterwards sojourned for a while at Siālkot, where he built a fort, but finally settled down and married at Sāhiwāl, in Shāhpur District. It must be confessed. however, that his history and that of his descendants bear somewhat the character of eponymous myths. Manik, sixth in descent from Sial. founded the town of Mankera in 1380; and his great-grandson, Mal Khan, built Jhang Sial on the Chenab in 1462. Four years later. Mal Khan presented himself at Lahore, in obedience to a summons. and obtained the territory of Jhang as an hereditary possession, subject to a payment of tribute to the imperial treasury. His family continued to rule at Thang, with the dynastic quarrels and massacres usual in Indian annals, till the beginning of the last century.

Meanwhile the Sikh power had arisen in the north, and Karam Singh Dulu, a chief of the Bhangi confederacy, had conquered Chiniot. In 7802 Ranift Singh took the fort there and marched on Ihang, but was bought off by Ahmad Khān, the last of the Sial chieftains, on promise of a yearly tribute, amounting to Rs. 70,000 and a mare. Three years later, however, the Mahārājā again invaded Ihang with a large army, and took the fort, after a desperate resistance. Ahmad Khān then fled to Multan, and the Maharaja farmed the territories of Ihang to Sardar Fatch Singh. Shortly afterwards, Ahmad Khan returned with a force given him by Muzaffar Khān, Nawāb of Multān, and recovered a large part of his previous dominions, which Ranift Singh suffered him to retain on payment of the former tribute, as he found himself too busy elsewhere to attack Ihang. After his unsuccessful attempt on Multan in 1810, the Mahārājā took Ahmad Khan a prisoner to Lahore. as he suspected him of favouring his enemy. Muzaffar Khān. He afterwards bestowed on him a jayar, which descended to his son. Inayat Khan. On the death of the latter, his brother, Ismail Khan. endeavoured to obtain succession to the jagir, but failed through the opposition of Gulab Singh. In 1847, after the establishment of the British Agency at Lahore, the District came under its charge, and in 1848 Ismail Khān rendered important services against the rebel chiefs, for which he received a small pension. During the Mutiny of 1857, the Siāl leader again proved his loyalty by raising a force of cavalry and serving in person on the British side.

The presence of numerous mounds, especially in the south of the District, testifies to the former existence of a large and settled population. The remains which have received most attention are those at Shorkot, consisting of a huge mound of ruins surrounded by a wall of large-sized bricks. Most of the pre-Muhammadan coins that have been found here are of the Indo-Scythian period. The finest building in the District is the Shāhi Masjid at Chiniot, built in the reign of Shāh Jahān.

The population of the District at the last three enumerations was: (1881) 390,703, (1891) 432,549, and (1901) 1,002,656. It increased by no less than 132 per cent. during the last decade, almost entirely owing to the opening of the Chenāb Canal and the colonization of the canal tract. The District is divided into six tahsīls: Jhang, Chiniot, Shorkot, Lyallpur, Samundri, and Toda Tek Singh. The head-quarters of each are at the place from which it is named. The towns are the municipalities of Jhang-Maghiāna, the head-quarters of the District, Chiniot, and Lyallpur. The table on the next page gives the principal statistics of population in 1901.

Muhammadans form 68 per cent. of the total population, Hindus

24 per cent., and Sikhs 7 per cent. The density is only 150-7 persons per square mile, which is considerably below the average (200) for the British Punish. The language of the nomad tribes who originally inhabited the Har is called Jangli, a form of Western Punjabi. Every variety of Puniābi is represented among the colonists.

| | Number of | | ġ | 20 | 5.E. 2 5. | 2 2 2 | |
|---|--|--------|--|---|--|--|---|
| Taksi/* | Area in squantes. | Towns. | Villages. | Population | Population | Percentage variation population twen 18 | Number persons ab read an |
| Jhang Chunot Shorkot Lyallpur Samundri Toba Tak Singh | 1,43H 1,32H 927 1,084 1,053 1,007 | 1 | 414 406 177 255 310 334 | 194,454 200,676 95,136 239,421 157,285 125,684 | 135·1 151·1 102·6 211·6 149·3 124·8 | † + - 2-9 + + | 11,362 5,693 5,023 6,593 3,526 3,937 |
| District total | 6,652 | 3 | 1,896 | 1,002,656 | 150-7 | + 131-8 | 36,134 |

Note—The figures for the areas of tabile are taken from revenue roturns. The total District area is that given in the Conside Report.

The tabile of Lyallpur, Tolia Tek Singh, and Samundri, with their boundaries one-what modified, from the new district of Lyallpur, which was constituted on December 1, real. Earlier in the same year, the Kirana Bar was transferred from Hang to Shalipur, and subsequently villages were transferred from Tolia Tek Singh to thang to Shalipur, and subsequently villages were transferred from Tolia Tek Singh to thang and from Change in tabile boundaries since 1891.

The most numerous tribe is that of the Jats, who number 231,000, or 23 per cent, of the total population. Next to them in numerical strength come the Rajputs, numbering 90,000, and then the Arains with 62,000. Other important agricultural tribes are the Balochs (29,000), Khokhars (24,000), and Kambohs (11,000). The Saivids number 10,000. The Atoras (68,000) are the strongest of the commercial classes, the Khattris returning 21,000. The Brahmans number 9,000. Of the artisan classes, the Julahas (weavers, 40,000), Kumhars (potters, 32,000), Mochis (shoemakers and leather-workers, 29,000), Chamars (shoemakers and leather-workers, 23,000), Tarkhāns (carpenters, 23,000), and Lohārs (blacksmiths, 10,000) are the most important; and of the menials, the Chebras and Musallis (sweepers and scavengers, 105,000), Machhis (fishermen, bakers, and water-carriers, 21,000), Nais (barbers, 13,000), and Dhobis (washermen, 10,000). worth mentioning in view of their numerical strength are the Mīrāsīs Other castes (village minstrels, 16,000) and Fakirs (mendicants, 13,000). About in per cent of the people are supported by agriculture.

The Church Missionary Society began work in the District in 1899, and has two stations, at Gojra and Toha Tek Singh. A considerable number of native Christians are scattered through the villages of the colony. At the last Census (1901) the number of Christians in the

colony was 8,672. The Church Missionary Society owns two villages: Montgomerywālā, the larger, where there is a native church, with a population of 1,021; and Batemanābād, with a population of 337. The Roman Catholics hold the villages of Khushpur, founded in 1899 (population, 1,084), and Francispur, founded in 1904. The American Reformed Presbyterians have a mission at Lyallpur established in 1894, and they were followed by the American United Presbyterians in 1896. A few Salvationists are settled at Lyallpur and the neighbouring villages.

The soil is an alluvial loam, more or less mixed with sand; but agricultural conditions depend not on distinctions of soil, but on the facilities afforded for irrigation, and less than one per cent. of the cultivation is unirrigated. At the same time the District, while not dependent on the rainfall, benefits largely by seasonable rain, which enables cultivation to be extended by supplementing the supply available from irrigation, and also secures an abundant supply of fodder.

The main agricultural statistics for 1903-4 are shown below, areas being in square miles:—

| Tahsil. | Total. | Cultivated. | Irrigated. | Cultivable waste. |
|----------------|--------|-------------|------------|----------------------|
| Jhang | 1,414 | 401 | 340 | Bgt |
| Chiniot | 1,311 | 474 | 400 | 745 |
| Shorkot | 917 | 214 | 157 | 745 638 |
| Lyallpur | 1,024 | 700 | 697 | 257 |
| Samundri | 961 | 649 | 649 | 265 |
| Toba Tek Singh | 934 | 556 | 556 | 324 |
| Total | 6,562 | 1,994 | 2,799 | 3,120 |

More than half the area of the District, or 3,531 square miles, is the property of Government. Of this area, nearly two-thirds is leased to crown tenants in the Chenāb Colony, and a large portion of the remainder will soon be commanded by the Jhelum Canal and leased to tenants. The Thal alone will thus remain uncultivated. Nearly all the proprietary villages are held by communities of small peasant owners. The area in square miles under each of the principal foodgrains in 1903-4 was: wheat, 1,333; great millet, 170; and maize, 143. The principal non-food crop is cotton (354). Oilseeds covered 188 square miles.

The construction of the Chenāb Canal has entirely revolutionized the agricultural conditions of the uplands between the Chenāb and Rāvi, and the Jhelum Canal is doing the same for the Bār north of the Jhelum. Thus the District, once one of the most sterile and thinly populated, is now one of the first in the Punjab, in both cultivation

and population. The experimental farm at Lyallpur, established in 1901, is chiefly utilized for the study of Punjab crops, and their improvement by cross-fertilization and selection; but it has hardly been in existence long enough to produce any result as regards the quality of the crops generally grown in the District. In spite of the important part played by wells in the cultivation of the lowlands, loans for their construction are not popular. Twelve lakhs were advanced under the Land Improvement Loans Act during the five years ending 1901; but these advances were taken almost entirely by incoming colonists, to pay expenses due from them to Government under a system which has now been given up.

Before the introduction of canal-irrigation, the population of the Bār was largely pastoral. The breed of cattle, however, was never greatly esteemed, and the large numbers now required for agricultural purposes are purchased from outside the District. Cattle fairs are held at Jhang and Lyallpur. The District is famous for its horses, and a good deal of horse breeding is carried on. The Remount department keeps nine and the District board seven horse stallions, and the District contains more than 1,000 branded mares. Ten donkey stallions are kept by the Remount department and four by the District board. Important horse fairs are held at Lyallpur and Jhang. A large number of camels are bred, and many of the colonists are bound by the conditions of their grants to furnish camels for transport work when required. Sheep and goats are kept in large numbers.

Of the total area cultivated in 1903 4, 2,799 square miles were irrigated, 453 square miles being supplied from wells, 23 from wells and canals, 2,319 from canals, and 4 from streams and tanks. In addition, 154 square miles, or 5 per cent, of the cultivated area, are subject to inundation from the rivers. The great mainstay of the District is the Chenab Canal. The greater part of the country irrigated by this canal was originally Government waste, and now forms part of the Chenab Colony, which occupies nearly half the total area of the District. In the colony canal irrigation is but little supplemented by wells, and the old wells in the canal tract have mostly fallen into disuse. The District contains 15,980 masonry wells, chiefly found in the riverain lands, all worked with Persian wheels by cattle, besides 332 lever wells, water-lifts, and unbricked wells.

The District is devoid of true forests; but the Government waste, not included in the colony, which is under the control of the Deputy-Commissioner, is still extensive. The largest area is the Thal desert, in the Sind-Sagar Doab, which covers about 400 square miles. A great deal of tree-planting has been done in the colony.

The only mineral product of any importance is the stone quarried from the Chiniot hills.

The town of Chiniot is famous for its carpentry and wood-carving. and ornamental articles of furniture are made of brass inlay and marquetry. Good saddlery and locks are made at Thang and Maghiana, and a great deal of cotton communications, cloth is woven throughout the District. Preparing raw cotton for export is a flourishing business; and the District contains 10 cotton-ginning factories, 6 cotton-presses, 5 combined ginning and pressing factories, a combined ginning factory and flour-mill, a combined press and flour-mill, an iron foundry, and a flour-mill, The iron foundry and the flour-mill, which are situated at Lyallpur, were closed in 1004, but the rest of the mills and factories mentioned employed 1,220 hands in that year. They are all situated within the Chenab Colony and also within the new Lyallour District. Three of the ginning factories and one of the presses are at Chiniot Road. a small town that has sprung up at the railway station nearest Chiniot: and two of the combined ginning and pressing factorics and the com-

The town of Lyallpur is one of the chief centres of the wheat trade in India, and the District exports large quantities of wheat, cotton, oil-seeds, and other agricultural produce. Iron, timber, and piece-goods are the chief articles of import.

bined press and flour-mill are at Toba Tek Singh, while the rest are

divided between Lyallpur and Goina.

The Wazīrābād-Khānewāl branch of the North-Western Railway runs through the middle of the District, and carries the heavy export of agricultural produce from the Chenāb Colony. The Southern Jech Doāb Railway, which crosses the Chenāb 10 miles above Jhang, joins the former line in the south of the District. It carries the produce of the villages irrigated by the Jhelum Canal, and places the town of Jhang in communication with the main line. The total length of metalled roads is 15 miles and of unmetalled roads 1,795 miles. Of these, 5 miles of metalled and 58 miles of unmetalled roads are under the Public Works department, and the rest are maintained by the District board. The Jhelum is crossed by nine ferries, and the Chenāb by nineteen above and below its confluence with the Jhelum. There is but little traffic on these rivers.

There is no record of famine in Jhang District. Although the various droughts which have visited the Punjab in the past must have caused great mortality in cattle, famine on a large scale was impossible owing to the absence of unirrigated cultivation and the sparseness of the population. The construction of the Chenāb Canal has now not only made the District able to support a large population in perfect security, but has turned it into the principal granary of the Province.

The District is in charge of a Deputy-Commissioner, aided by three Assistant or Extra-Assistant Commissioners, of whom one is in charge of the District treasury. The District, as now constituted, is divided into three tahsīls, each in charge of a tahsīlsār.

The Deputy-Commissioner as District Magistrate is responsible for criminal justice. Judicial work is under a District Judge, and both officers are supervised by the Divisional Judge of the Shāhpur Civil Division, who is also Sessions Judge. There are three Munsifs, two at head-quarters and one at Chiniot, and one honorary magistrate. Cattle theft is the commonest form of serious crime.

The Siāl chiefs of Jhang appear to have taken a fourth of the produce in kind as their share. In 1831 Sāwan Mal's rule over the Multān Province began. His system of combined cash and kind rents enhanced by numerous cesses is described in the article on Multān District. The Kalowal tract, which lay west of the Chenāb, was administered by Rājā Gulāb Singh; and as he exacted as much as he could in the shortest possible time, the development of this part of the District was greatly retarded.

In 1847-8 the first summary settlement was made before annexation. The basis was a reduction of 20 per cent, on the realizations of the Sikhs. At first the revenue was easily paid, but the sharp fall in prices which followed annexation caused great distress, and even desertion of the land. The second summary settlement, made in 1853, resulted in a reduction of 18 per cent. In Kalowāl the first assessment had broken down utterly, and was revised in three days by the Commissioner, Mr. Thornton, who reduced the demand from one lakh to Rs. 75,000 in 1851. In 1853 he remitted Rs. 12,000 more, and the remaining Rs. 63,000 was easily paid.

In 1855 the regular settlement was begun. Government land was demarcated, a process simplified by the readiness of the people to part with their land and its burdens on any terms. The demand was fixed at 2 lakhs, while Kalowal (now in the Chimiot tahsīl, but then a part of Shahpur District) was assessed at Rs. 33.000. Generally speaking, the demand was easily and punctually paid. A revised settlement was carried out between 1874 and 1880, fixed assessments being sanctioned for the flooded lands of the Chenāb and Jhelum, and a fluctuating assessment for the Rāvi villages, since transferred to Multān District. In certain parts of the District each well was assessed at a fixed sum. The total demand was 3.5 lakhs, an increase of 26 per cent. The rates of last settlement ranged from R. c-8-o to Rs. 1-6-4 on 'wet' land, the 'dry' rate being R. o-8-o.

During the currency of this settlement the enormous Government waste between the Chenāh and Rāvi rivers, known as the Sandal Bār,

almost the whole of which is at present included in Jhang District, has come under cultivation by the aid of the Chenāb Canal. The present revenue rate in this tract is 8 annas per acre matured. The extension explains the recent enormous rise in the land revenue demand, which was 22-3 lakhs in 1903-4, almost the whole of the fluctuating demand being realized from the new cultivation in the Sandal Bār. The administration of the Government land was under a separate Colonization officer until 1907, but the old proprietary villages of the District came again under settlement in 1901. It was estimated that an increase of Rs. 1,12,000 would be taken; but this will probably be largely exceeded, owing to extensions of the Chenāb Canal and to the introduction of canal-irrigation on the right bank of the Chenāb from the Jhelum Canal.

The collections of land revenue alone and of total revenue are shown below, in thousands of rupees:—

| 1 | | 1880-1. | 1891-1 | 1000-1. | 1903-4. |
|---------------|-----|---------|--------|---------|---------|
| Land revenue | : : | 4,30 | 4,84 | 16,47 | 18,78 |
| Total revenue | | 5,26 | 6,16 | 22,24 | 26,35 |

The District contains the three municipalities of JHANG-MAGHIĀNA, CHINIOT, and LYALLPUR, and the three 'notified areas' of AHMADPUR, SHORKOT, and GOJRA. Outside these, local affairs are entrusted to the District board. The income of the board, derived mainly from a local rate, was 3 lakhs in 1903-4, and the expenditure 2.5 lakhs. The largest item of expenditure was public works.

The regular police force consists of 834 of all ranks, including 149 municipal police, under a Superintendent, who usually has 3 inspectors under him. The village watchmen number 815. There are 11 police stations, 3 outposts, and 10 road-posts. The District jail at head-quarters has accommodation for 302 prisoners.

The percentage of literate persons in 1901 was 3.6 (6.3 males and 0.3 females), the District standing seventeenth among the twenty-eight Districts of the Province in this respect. The proportion is highest in the Jhang tahsīl. The number of pupils under instruction was 2,243 in 1880-1, 4,686 in 1890-1, 6,108 in 1900-1, and 8,275 in 1903-4. In the last year the District possessed 5 secondary, 98 primary (public) schools, and one 'special' school, with 19 advanced and 210 elementary (private) schools. The proportion of girls is unusually large, there being 611 female scholars in the public, and 535 in the private schools. The only high school in the District is at Jhang town. The total expenditure on education in 1903-4 was Rs. 46,000, the greater part of which was met from Local funds and fees.

Besides the civil hospital and branch dispensary at Jhang-Maghiāna,

the District has 12 outlying dispensaries. In 1904 the number of cases treated was 132,374, of whom 2,201 were in-patients, and 6,395 operations were performed. The expenditure was Rs. 24,000, the greater part of which was contributed by Local and municipal funds.

The number of persons successfully vaccinated in 1903-4 was 30,073, representing 30 per 1,000 of the population. Vaccination is compulsory only in the municipality of Jhang-Maghiana.

[D. C. J. Ibbetson, Jhang District Gazetteer (1883-4); and L. Leslie Jones, Chendb Colony Gazetteer (1905); E. B. Steedman, Jhang Settlement Report (1882).

Jhang Tahsil.—Tahsil of Jhang District, Punjab, lying between 31°0′ and 31°47′ N. and 71°58′ and 72°41′ E., with an area, since the formation of Lyallpur District in 1904, of 1,421′ square miles. The Jhelum enters the tahsil on the north west and the Chenāb on the north-east, and they meet towards the south. The population in 1901 was 194,454. It contains the town of Jhang-Maghiāna (population, 24,382), the head-quarters, and 448 villages. The land revenue and cesses in 1905–6 amounted to Rs 2,56,000. The tahsil extends into the Chenāb Colony on the east; and a strip of the Sandal Bār, still mits pristine state, lies between the rich villages of this part and the cultivated lowlands on either side of the Chenāb. Heyond these, waste alternates with cultivation, due to the farthest extensions of the Jhelum Canal, until the Jhelum lowlands are reached, studded with prosperous villages, situated among palm groves. The western border lies within the sandy desert of the Thal.

Jhang-Maghiana. Head-quarters of the District and talist of Jhang, Punjab, situated in 31° 18' N, and 72° 20' E., on the Jech Doab extension of the North-Western Railway. Population (1901), 24,382, of whom 12,189 are Hindus and 11,684 Muhammadans. The towns of Jhang and Maghiana lie two miles apart, connected by metalled roads, but form a joint municipality. The Chenab flows at a distance of about three miles to the west, but in the hot season the Kharora branch of the river runs close past both towns, and with its fine avenue of trees, three miles long, and handsome masonry bathing ghats, adds a peculiar beauty to the neighbourhood. The country round is well wooded, and fine gardens abound. An inundation canal leaves the Kharora branch of the Chenāb near Jhang, and, passing round Maghiana, empties itself into the same branch after a course of 5 miles. Maghiana lies on the edge of the highlands, overlooking the alluvial valley of the Chenab, while the older town of Jhang occupies the lowlands at its foot. Jhang is said to have been founded in the fifteenth century, and to have been destroyed by the river and refounded in the reign of Aurangzeb. It was taken by Ranjit Singh in 1805. The Government offices and establishments have now been

removed to the higher site, and commerce has almost deserted Jhang, which is no longer a place of importance. Jhang-Maghiāna was constituted a municipality in 1867. The income during the ten years ending 1902-3 averaged Rs. 46,800, and the expenditure Rs. 44,200. In 1903-4 the income was Rs. 49,700, mainly derived from octroi; and the expenditure was Rs. 50,200. Maghiāna has a considerable trade in grain and country cloth, and manufactures leather, soap, locks and other brass-work. There is a civil hospital at Maghiāna, and a high school and a dispensary at Jhang.

Jhanida.—Subdivision and village in Jessore District, Bengal. See IHENIDA.

Jhanjhārpur.—Village in the Madhubanī subdivision of Darbhangā District, Bengal, situated in 26° 16′ N. and 86° 17′ E., on the Bengal North-Western Railway. Population (1901), 5,639. Its brass utensils, particularly the pānbatta or box for holding betel-leaf and the gangājatī or water-pot, have a local reputation.

Jhansi District .-- South-western District of the Allahabad Division. United Provinces, lying between 24° 11' and 25° 50' N. and 78° 10' and 70° 25' E., with an area of 3.628 square miles. The District consists of two portions, each roughly shaped like a pear, which are connected by a narrow strip of country. The northern portion lies east and west, and is bounded on the north by the States of Gwalior and Samthar and by Jalaun District; on the east by the Dhasan river, which separates it from Hamirpur and from portions of the smaller Bundelkhand States: on the south by the State of Orchhā; and on the west by the States of Datia, Gwalior, and Khaniadhana. The southern boundary is extremely irregular, incorporating several enclaves of Native territory, while British villages are also enclosed in the adjacent States. The southern portion, which lies north and south, is bounded on the west by the Betwa river, which separates it from Gwalior: on the south by the Saugor District of the Central Provinces; and on the east by the Dhasan and Jamni rivers, which divide it from the Bundelkhand States.

The District presents a great variety in its physical aspects, and includes some of the most beautiful scenery in the Provinces. The highest ground is in

Physical aspects.

the extreme south, which extends to the two outer scarps of the Vindhyan plateau, running from the Betwā in a south-easterly direction and gradually breaking up into a confused mass of hills, parts of which approach a height of 2,000 feet above sea-level. Below the second scarp an undulating plain of black soil, interspersed with scattered hills and scored by numerous drainage channels, stretches north beyond the town of Lalitpur, and gradually becomes more rocky. Low red hills of gneiss then appear, with long ridges running from south-west to northeast. These continue in the northern portion of the District, especi-

ally east of the Betwā, but gradually sink into another plain of dark soil. The slope of the country is from south-west to north-east, and the rivers flow generally in the same direction. The Betwā is the most considerable river, and after forming the western boundary of the southern portion divides it from the northern half, which it then crosses. Its principal tributaries, the Jamni and Dhasān, form the eastern boundaries of the southern and northern parts of the District. The Pahuj is a small stream west of the Betwā. A striking feature of the Dhasān and of the Betwā, especially on the left bank, is the labyrinth of wild deep ravines, sometimes stretching 2 or 3 miles away from the river. The numerous artificial lakes formed by embanking valleys add to the natural beauty of the scenery. The largest are at Talbahat, Barwā Sāgar, Arjār, Pachwāra, and Magarwārā.

The oldest rock is gneiss, which occupies the greater part of the District. It forms the massive grantic ridges described above, which are traversed by gigantic quartz reefs, and often crossed at right angles by basic dikes of dolerite or diabase. South of Lalitpur the Upper Vindhyan massive sandstones, with a bed of Kaimur conglomerate near the base, rest directly on the gneiss, but in places the Bijāwar and Lower Vindhyan series intervene. The former of these includes sandstones, limestones, and slates, some of the beds containing a rich hematitic ore, while copper has been found in small quantities. The Lower Vindhyans consist principally of sandstone and shale. The fringe of the great spread of basalt constituting the Mālwā trap just reaches the extreme south-east of the District, while a few outlying patches are found farther north, and the cretaceous sandstones of the Lameta group, which often underbe the trap, are met near the basalt.

The flora of the District resembles that of Central India. A considerable area is 'reserved' or 'protected' forest, which will be described later; but there is a serious deficiency of timber trees, and the general appearance is that of low scrub jungle. Grazing is abundant, except in unusually dry years.

In the more level portion of the District, hog, antelope, and nilgai do great damage to the crops. Leopards, chital, sāmbar, hyenas, wolves, and occasionally a lynx are tound in the northern hills, while farther south tigers, bears, wild dogs, and the four-horned antelope are met with, and at rare intervals a wild buffalo is seen. Bustard, partridge, sand grouse, quail, and plover are the commonest game-birds, while snipe, duck, and geese haunt the marshy places and lakes in the cold season. Mahseer and other kinds of fish abound in the larger rivers

The climate of the District is hot and very dry, as there is little shade and the radiation from bare rocks and and wastes is excessive. It is,

¹ H. B. Medlicott, Memorrs, Geological Survey of India, vol. ii, pt. i.

however, not unhealthy, except in the autumn; and during the rains and short cold season the climate is far from unpleasant. In the south, owing to its greater elevation, the temperature is slightly lower than in the northern part.

The annual rainfall averages about 31 inches, ranging from 34 inches in the north-west to about 41 in the south-east. In 1868-9 the fall amounted to only 15 inches, but in 1894-5 it was nearly 60 inches. The seasonable distribution of the rain is, however, of more importance than large variations in the total amount. Disastrous hailstorms are common in the cold season, and nearly 100 head of cattle were killed in a single storm in 1895.

Thansi forms part of the tract known as British BUNDKLKHAND, and its history is that of the Chandel and Bundela dynasties which once ruled that area. The earliest traditions point to the History. occupation of the northern portion by Parihar and Kāthi Rāinuts, and of the south by Gonds. The Chandels of MAHOBA rose into power east of this District in the ninth century, but extended their power over it in the eleventh century, and have left many memorials of their rule in temples and ornamental tanks. After the defeat of the last great Chandel Raja by Prithwi Raj in 1182, and the raids of the Muhammadans under Kuth-ud-din in 1202-1 and Altamsh in 1214, the country relapsed into anarchy. The Khangars, an aboriginal tribe, who are said to have been the servants of the Chandels and are now represented by a menial caste, held the tract for some time and built the fort of Karār, which stands just outside the British border in the Orchha State. The Bundelas rose to power in the thirteenth or fourteenth century and expelled the Khangars. One of their chiefs. named Rudra Pratap, was recognized by Babar, and his son, Bharti Chand, founded the city of Orchhā in 1511. The Bundela power gradually extended over the whole of this District and the adjacent territory, and the authority of the Mughals was directly challenged. the early part of the seventeenth century the Orchha State was ruled by Bir Singh Deo, who built the fort at Ihansi. He incurred the heavy displeasure of Akbar by the murder of Abul Fazl, the emperor's favourite minister and historian, at the instigation of prince Salim, afterwards the emperor Jahangir. A force was accordingly sent against him, which was defeated in 1602. On the accession of Jahangir in 1605. Bir Singh was pardoned and rose to great favour; but when, on the death of the emperor in 1627, Shah Jahan mounted the throne. Bir Singh revolted again. The rebellion was unsuccessful, and Bir Singh died shortly after. The south of the District had already fallen into the hands of another descendant of Rudra Pratap, who founded the State of Chanderi. In the latter half of the seventeenth century a third Bundela State was founded east of the District by Champat Rai, whose

son, Chhatarsal, extended his authority over part of Jhansi. On his death, about 1734, the Marathas obtained the greater part of the District under his will, and in 1742 forcibly extorted most of the remainder from the Raja of Orchha. Ihansi remained under the Peshwas for some thirty years, though in the south the Raias of Chanderi still maintained partial independence. After that period the Maratha governors of the north of the District made themselves independent in all but name. In 1817 the Peshwä ceded to the East India Company his sovereign rights over the whole of Bundelkhand, and in the same year Government recognized the hereditary title of the Maratha governor and his descendants to their existing possessions. The title of Raja was granted to the Thansi house in 1832 for services rendered in connexion with the siege of Bharatpur. In 1840 the Political Agent in Bundelkhand was obliged to assume the administration in the interests of civil order, pending the decision of a dispute as to succession; and the management was not restored till 1842, when most of the District was entrusted to Rājā Gangādhar Rao. The Rājā died childless in 1853, when his territories lapsed to the British Government and were formed into a District of Ihansi. Meanwhile the Chanderi State. which comprised the south of the District and some territory west of the Betwa, had also been acquired. A dissolute and inefficient ruler. named Mür Pahlad, who had succeeded in 1802, was unable to control his vassal Thakurs, who made constant plundering expeditions into the neighbouring territory. In 1811 their incursions on the villages of Gwalior provoked Sindhia to measures of retaliation, and Mür Pahlad was deposed, but received a grant of thirty-one villages. In 1820 another revolt was headed by the former Raja. It was promptly suppressed, and the State was divided, Mür Pahlad receiving one-third. In 1844, after the battle of Mahārājpur, Sindhia ceded to the British Government all his share of the Chanderi State as a guarantee for the maintenance of the Gwalior Contingent. The territory so acquired was constituted a District called Chanderi, with the stipulation that the sovereignty of the Raja and the rights of the inhabitants should be respected.

In 1857 there was considerable discontent in both the Jhānsi and Chandert Districts. The widow of Gangādhar Rao was aggrieved, because she was not allowed to adopt an heir, and because the slaughter of cattle was permitted in Jhānsi territory. Mardān Singh, the Rājā of Bānpur, had for some time resented the withholding of certain honours. The events of 1857 accordingly found the whole District ripe for rebellion. On June 5 a few men of the 12th Native Infantry seized a small fort in the cantonment containing the treasure and magazine. Many European officers were shot the same day. The remainder, who had taken refuge in the main fort, capitulated a few

days after and were massacred with their families, to the number of 66 persons, in spite of a promise of protection sworp on the Koran and Ganges water. The Rani then attempted to seize the supreme authority: but the usual anarchic quarrels arose between the rebels. and the whole country was plundered by the Orchha leaders. The Bundelas also rose in the south; and Lalitour, the head-quarters of the Chander District, was abandoned by the British officials, who suffered great hardships, but were not murdered. The Raja then asserted complete independence and extended his rule into parts of Saugor District, but was driven back to Chanderi by Sir Hugh Rose in January, 1858. On March 2 the British army forced the passes in the south of the District and marched north. Jhansi was reached on March 20, and during the siege Tantia Topi, who attempted a diversion. was completely defeated. The town was assaulted on April 3, and the fort was captured on the 5th. Sir Hugh Rose had been compelled to march forward to Jalaun District, leaving only a few troops at Thansi, and disturbances soon broke out again, and increased when news of the Gwalior revolution was received. The Maratha chief of Gursarai, in the north of the District, held out for the British, and in July the Banpur Rājā gave himself up. The south and the west of the District, however, were not cleared till late in the year. In 1861 the name of the Chanderi District was changed to Lalitour; and in the same year the portions of that District west of the Betwa, together with Ihansi town and fort, were ceded to Sindhia. In 1886 Jhansi town and fort, with 58 villages, were made over to the British by Sindhia in exchange for the Gwalior fort. Morar cantonment, and some other villages. The two Districts of Jhansi and Lalitpur were united in 1801: but the area included in the latter forms an administrative subdivision.

The District is exceptionally rich in archaeological remains. Chandel memorials in the form of temples and other buildings are found in many places, among which may be mentioned Chāndpur, Deogarh, Dūdhai, Lalitpur, Madanpur, and Sīron. At Erachh (Irich) the fragments of ancient buildings have been used in the construction of a fine mosque, which dates from 1412.

Jhānsi District contains 9 towns and 1,331 villages. Population had been increasing steadily for some time, but received a check in the series of bad years between 1891 and 1901. The numbers at the last four enumerations were as follows:

(1872) 530,487, (1881) 624,953, (1891) 683,619, and (1901) 616,759. There are six tahsils—Jhānsi, Mau, Garauthā, Moth, Lalitpur, and Mahroni—the head-quarters of each being at a place of the same name. The principal towns are the municipalities of Jhānsi, the administrative head-quarters of the District, Mau-Rānīpur, and Lalit-

VOL. XIV.

PUR. The following table gives the chief statistics of population in 1901:—

| | | mherof | É | <u> </u> | 2 mg 5 mg | r of ole to rd |
|--|--|--|--|---------------------------------|---|--|
| Toksil. | Arca in squ miles. | Villages. | Population | Population square mil | Percentag variation population tween 1 | Namber persons al read av |
| Jhänss . Mau Garauthä . Moth . Lalitpur . Mahroni . | 499 3 - 439 1 - 466 . - 279 2 - 7,058 3 - 887 ; 1 | 210 164 153 136 368 300 | 145,371 100,298 66,963 \$5,638 144,638 | 291 228 144 199 137 | - 0.2 - 13-3 - 24-7 - 5-9 - 7-9 - 11-3 | 9,769 3.743 2,766 1,631 4,097 2,927 |
| District tota | 3.625 0 | 1,331 | 616,759 | 170 | - 98 | 24,933 |

Nearly 93 per cent. of the population are Hindus and only 5 per cent. Muhammadans. Jains number 10,760, forming 1-7 per cent. of the total—a higher proportion than in any other District of the United Provinces. The density of population is lower than in any part of the United Provinces, except the Kumaun Division, and the District suffered heavily from famine in 1895 7 and again in 1900. More than 99 per cent. of the people speak Western Hindi, chiefly of the Bundeli dialect.

Chamārs (leather-dressers and cultivators), 76,000, are the most numerous Hindu caste, followed by Kāchhīs (cultivators), 58,000; Brāhmans, 58,000; Ahīrs (graziers and cultivators), 52,000; Lodhas (agriculturists), 47,000; and Rājputs, 35,000. Among castes peculiar to this part of India may be mentioned the Khangārs (9,000), Basors (9,000), and Sahariās (7,000); the two former being menials, and the last a jungle tribe. Shakhs (13,000) are the most important Musalmān tribe. About 56 per cent. of the total population are supported by agriculture and 8 per cent. by general labour. Rājputs, Brāhmans, Abīrs, Lodhas, and Kurmīs are the chief proprietary castes, the first named being largely of the Bundelā clan.

In 1901 there were 777 native Christians, of whom 355 belonged to the Anglican communion and 267 were Roman Catholics. The Church Missionary Society has had a station at Jhansi since 1858, and the American Presbyterian Mission since 1886.

The characteristic feature of Jhansi, as of all the Bundelkhand Districts, is its hability to alternate cycles of agricultural prosperity

and depression. It contains the usual soils found in this tract. Mār and kābar are dark soils, the former being distinguished by its fertility and power of retaining moisture, while kābar is less fertile, becomes too sticky to plough when wet, and dries very quickly, spliting into hard blocks. Parwā is a brownish or yellowish soil more nearly resembling the loam of the Doāb. Mār, the commonest variety, covers a large area in the centre of both the

northern and southern portions of the District, and is also found on the terraces of the Vindhyas. It produces excellent wheat in favourable seasons, but is liable to be thrown out of cultivation by the growth of kans (Saccharum spontaneum). This is a tall thin grass which quickly spreads when tillage is relaxed; its roots reach a depth of 6 or 7 feet and finally prevent the passage of the plough. After a period of ten or fifteen years kans gradually gives way to other grasses, and the land can again be cultivated. In the neck of land which connects the two portions of the District, and for some distance south of the narrowest point, a red soil called rakar patri is found. which usually produces only an inferior millet. Interspersed among these tracts of poor soils little oases are found, generally near village sites and in valleys, which are carefully manured and regularly watered from wells sunk in the rock. The spring crops are peculiarly liable to attacks of rust in damp, cloudy weather. Along the rivers there is a little alluvial land, and near the lakes in some parts of the District rice can be grown. In the north-west, field embankments are commonly made, which hold up water for rice cultivation and also serve to stop the spread of kans.

The greater part of the land is held on the usual tenures found in the United Provinces. In the Lalitpur subdivision nearly two-thirds of the whole area is included in zamindāri estates, while pattīdāri holdings are commoner in the rest of the District. A peculiar tenure, called ubārī, is also found. This originated from grants of land given in lieu of a definite annual sum, or hakk. Where the annual value of the land granted exceeded the hakk, the excess (ubārī) was paid as revenue. The tenure is thus equivalent to an abatement of the full revenue chargeable. Some of the ubārī tenures, called batota, date from the occupation of Chanderī by Sindhia and are not liable to resumption; but the others, which were mainly granted after the British occupation, are liable to be resumed for misconduct, on the death of an incumbent (though such resumptions are rare), or if any part of the ubārī estate is transferred. The main agricultural statistics for 1903-4 are given below, in square miles:

| 72 | hsil. | | | Total. | Cultivated. | Irrigated. | Cultinable waste. |
|----------|-------|----|------|--------|-------------|------------|----------------------|
| Jhānsi | | | | 499 | 171 | 28 | 180 |
| Mau. | | | | 439 | 190 | 13 | 149 |
| Garauthā | | | | 466 | 194 | | 147 |
| Moth | - | | | 279 | 118 | 2 | 105 |
| Lalitpur | | | | 1,058 | 244 | 38 | 463 |
| Mahroni | • | • | | 887 | 233 | 2.1 | 357 |
| | | To | otal | 3,628 | 1,150 | 103 | 1,401 |

NOTE -Statistics for the Jhansi, May, and Moth takeils are for 1903-3.

Jowar covered 326 square miles, kodon and other small millets 223, and gram 196. Wheat follows in importance with 89 square miles, and barley, rice, maize, and bājra are the remaining food-crops. Oilseeds were grown on 206, and cotton on 46 square miles.

The methods of cultivation in Bundelkhand are conspicuously poor, and the people easily yield to adverse circumstances. There has thus been no improvement in agricultural practice since the commencement of British rule. Within the last twenty years considerable loss has been caused by the introduction of artificial dyes in place of āl (Morinda cutrifolia). The al plant was grown on the best land, and required careful cultivation, which is the best preventive of a spread of kāns. The losses incurred by blight in 1893 and 1894 have also led to the replacement of wheat by the less valuable gram, but there has been a slight recovery. The steps taken to extend irrigation will be described later. Advances under the Land Improvement and Agriculturists' Loans Acts are freely taken, especially in bad seasons. A total of nearly 3 lakhs was advanced during the ten years ending 1900, and Rs. 60,000 in the next four years.

The cattle are smaller and hardier than in the Doāb, but the best animals are imported from the neighbourhood of the Ken river or from Gwalior. Attempts were made to improve the breed about 1870; but the Nāgor and Hissār bulls which were imported were too large and too deheate. There is no horse breeding in the District, and the ponies are of a very poor type. Donkeys are extensively used as beasts of burden. The sheep are of the ordinary inferior kind; but the goats bred along the banks of the Dhasān are celebrated for their size and the quantity of milk which they give.

In years of well-distributed rainfall, mar and kabar require no artificial sources of irrigation. Thus in 1903-4 only 103 square miles were irrigated in the whole District. Wells supplied 91 square miles, tanks 7, and canals 3. The well-irrigation is chiefly found in the redsoil tracts of the [hansi tahsil and the northern part of the Lalitour l'anks are very numerous, and the embankments of about thirty are maintained by the Public Works department, with 18 miles of small distributaries. New projects for making tanks are being carried out, and these serve a useful purpose by maintaining a high water-level, even where they are not used for irrigation directly. Much has already been done in repairing old embankments and in deepening lakes and improving the irrigation channels. A canal is taken from the Betwa at Parichha, where the river is dammed; but it irrigates a very small area in Jhansi, chiefly serving Jalaun. A second dam is under construction higher up at Dukwa, which will impound a further supply. Water from wells is usually raised by means of the Persian wheel.

Government forests cover 189 square miles, of which 141 are situated in the Lalitpur subdivision. There is also a large area of private forest. The 'reserved' forests produce little timber; but they supply the wants of the villages in the neighbourhood, as well as some quantity of bamboos for export, and are of value for climatic reasons. Grass is especially important; and minor products, such as honey, lac, gum, catechu, and various fruits and roots, are also gathered by the jungle tribes. The chief trees include several kinds of acacia, Adina cordifolia, Anogeissus latifolia, Diospyros melanoxylon, Grewia vestita, various figs, Lagerstroemia parviflora, teak, and Terminalia tomentosa. The mahuā (Bassia latifolia) grows well. During years of lamine the forests are thrown open to grazing, and also supply roots and berries, which are eaten by the jungle tribes.

The most valuable mineral product is building stone, which is quarried from the Upper Vindhyan sandstone, and exported. Steatite is worked in one place, and iron is smelted after indigenous methods in a few small furnaces. The roads are largely metalled with disintegrated gneiss.

Coarse cotton cloth, called khāruā, is still woven at a number of places; and at Erachh more ornamental articles, such as chintz and large kerchies dyed with spots, are turned out.

Small woollen rugs are made at Jhānsi, and some good silk is woven at the same place. Mau, Jhānsi, and Maraurā are noted for brass work. The railway workshops at Jhānsi city employed 2,169 hands in 1903, and there are a small cottongin and an ice factory.

The most valuable exports of the District are oilseeds, ghī, and pān. Grass, minor forest products, and road metal are also exported, and hay was baled in large quantities for the Military Department during the Tīrāh expedition of 1895 and the South African War. There is no surplus of grain, except in very prosperous years. Sugar, salt, kerosene oil, and grain are the chief imports. Jhānsi city, Mau-Rānīpur, Lalitpur, and Chīrgaon are the principal trade centres, and Cawnpore and Bombay absorb most of the trade. There is, however, a considerable amount of local traffic with the adjacent Native States, and also some through trade.

Jhānsi city has become an important railway centre. The main line of the Indian Midland Railway (now amalgamated with the Great Indian Peninsula) enters the south of the District, and divides into two branches at Jhānsi, one running north-west to Agra and the other north-east to Cawnpore. A branch line from Jhānsi crosses the south-east of the northern division of the District. There are 1,295 miles of roads, a greater length than in any other District of the United Provinces. Of the total, 340 miles are metalled and are maintained by the

Public Works department, but the cost of 160 miles is charged to Local funds. There are avenues of trees along 364 miles. The principal routes are: the road from Cawnpore to Saugor through Jhānsi and Lalitpur, which traverses the District from end to end; and the roads from Ihānsi to Gwalior on the north-west, and to Nowgong on the south-east.

The District is specially exposed to blights, droughts, floods, hail-storms, and their natural consequence, famine, which is generally

accompanied by disastrous epidemics of fever and Femine. cholera. No details are known of the famines which must have periodically devastated this tract; but it is commonly said that famine may be expected in Bundelkhand every fifth year. The first serious famine after the Mutiny occurred in 1868-o, and it was probably the worst in the century. The rains of 1868 ceased prematurely and the autumn harvest was almost a complete failure. Poorhouses were opened, and subsequently relief works were started, which took the form of roads, bridges, and prigation embankments in Ihansi District, and the excavation of tanks and construction of embankments in Lahtpur. The total expenditure on this form of relief was nearly t lakhs, and the number of workers at one time rose above 26,000. Epidemics of small pox and cholera followed, and the climax came when the rains of 1860 broke, and the roads, which were at that time unmetalled, became impassable. Excluding several partial losses of the harvest, the next great famine took place in 1896-7. Since the autumn of 1803 the autumn crops had been poor, and the spring crops even poorer, while kans had spread rapidly. The rains of 1895 were deherent, and relief works were onened in February, 1806. In May 42,006 persons were being relieved, and a terrible epidemic of cholera added to the loss of life. The works were almost abandoned by the middle of July, and up to the end of August prospects were fair. The monsoon, however, ceased abruptly prices tose with alarming rapidity, and the telief works had to be reopened. The autumn was also marked by a virulent epidemic of fever, which attacked even the wellto do. The distress became most acute in May, 1897, when nearly 100,000 persons were being relieved. Large suspensions and remissions of revenue were made, and relief works were closed in Sep-In 1899 a short rainfall again caused great distress in the red soil area, and the effects were increased by the high prices due to famme in Western India.

The tabils of Lahtpur and Mahroni form the subdivision of Lalitpur, which is in charge of a member of the Indian Civil Service,

Administration.

assisted by a Deputy-Collector. The ordinary District staff consists of the Collector, a Joint-Magistrate, and three Deputy-Collectors recruited in India. The Forest officer is in charge of the whole of the Bundelkhand forest division.

There are two District Munsifs, and a Sub-Judge for civil work. The District and Sessions Judge has jurisdiction over the neighbouring District of Jalaun, and a Special Judge is at present engaged in inquiries under the Bundelkhand Encumbered Estates Act. The District is notorious for outbreaks of dacoity in bad times, and crimes of violence are not infrequent; but generally speaking, crime is light.

Up to 1891 the present Lalitpur subdivision formed a separate District, and the fiscal history of the two portions of what is now the District of Jhānsi is thus distinct. After the lapse of Jhānsi in 1853 the three Districts of Jhānsi, Chanderī (or Lalitpur), and Jālaun were placed in charge of Deputy-Superintendents, under a Superintendent who was subordinate to the Commissioner of the Saugor and Nerbudda Territories at Jubbulpore. In 1858 these Districts (including Hamīrpur up to 1863) were detached from Jubbulpore and administered as a Division in the Province of Agra on the non-regulation system. Finally, in 1891, the Districts were included in the Allahābād Division and were brought under the ordinary laws, many of which had already been applied.

In Ihānsi District proper the Marāthā revenue system was ryotwāri, and the nominal demand was a rack rent, which could be paid only in very favourable seasons. Arrears were not, however, carried over from one year to another. The early settlements of those portions of the District which were acquired between 1842 and 1844 were of a summary nature, and only for short periods. The first regular settlement of the whole commenced with a survey in 1854, but was interrupted by the Mutiny and not completed till 1864. Proprietary rights had been partly introduced between 1839 and 1842, and the sale of land by decree of the civil courts followed in 1862. The settlement, which was made by several officers on different principles, resulted in an assessment of 4.3 lakhs, as compared with a previous demand of 5.6 lakhs, in addition to about Rs. 50,000 due on account of ubarts. The demand was undoubtedly reasonable; but the rigid system of collection and the freedom of sale of land were new ideas that were not grasped by the people. Some landowners had been in debt since the days of Marāthā rule. After the Mutiny, revenue was collected from many from whom it had already been extorted by the Orchha or Jhansi rebels. In 1867 the crops failed, and in 1868-0 there was famine and great loss of cattle. In 1872 many cattle were again lost from murrain. Although the settlement had appeared light, it became necessary to re-examine the condition of the District in 1876. After much discussion the [hansi Encumbered Estates Act (XVI of 1882) was passed, and a Special Judge appointed, who was empowered to examine claims and reduce excessive interest. The sale of a whole estate operated as a discharge in bankruptcy to extinguish all debt due. Altogether, 1,475

applications were tried, and out of a total claim of 16-6 lakhs the Judge decreed 7-6 lakhs. More than 90 per cent. of the amount decreed was paid in full: namely, 12½ per cent. in cash, 46 per cent. by loan from Government, and 32 per cent. by sale of land, only 9½ per cent. being discharged under the insolvency clause. Many estates were cleared by sale of a portion only. A striking feature of the proceedings was the rapid rise in the value of land. The next revision of settlement was made between 1889 and 1892. This was carried out in the usual way by assessing on the actual rent-rolls, corrected where necessary by applying the rates ascertained for different classes of soil. The total revenue was raised from 4-9 to 5-5 lakhs.

In the Lalitpur District conditions were different, for zamīndāri rights existed, except where the Marāthās had extinguished them. The early British settlements were of a summary nature, and for short periods; and though nominally based on recorded rentals or customary rates, a system of auction to the highest bidder was sometimes followed, with disastrous results. The first regular settlement was commenced in 1853, but was interrupted by the Mutiny, and was not completed till 1869. The methods employed were a compromise between the valuation of villages by applying rates found to be paid for different classes of soil, and the valuation of the 'assets' actually recorded. The result was a reduction from 1-8 to 1-5 lakhs. This settlement came under revision in 1896, and the revenue was raised to 1-6 lakhs, though this was only to be reached by degrees, and the initial demand was 1-4 lakhs.

The revenue demand for the whole District was thus 7 lakhs when the famine of 1896-7 broke out. The special legislation of 1882 had only had a temporary effect, and the District has now been brought under the provisions of the Bundelkhand Encumbered Estates Act. The Land Ahenation Act has also been applied, and transfers are restricted in the case of land held by agricultural tribes. Summary reductions of revenue brought down the demand to 6·3 lakhs in 1902-3, or less than 5 annas per acre, varying from 1 anna to nearly 12 annas in different parts. In 1903 a new settlement was commenced under the special system, by which the demand will be liable to revision every five years.

Collections on account of land revenue and total revenue have been, in thousands of rupees:--

| | 1880-1 | 1890-1. | 1900-1, | 1903-4. |
|-----------------|--------|---------|---------|---------|
| Land revenue . | 5.71 | 6,18 | 6,12 | 6,34 |
| Total revenue . | 7,30 | 9,67 | 9,77 | 9,01 |

There are three municipalities, and six towns are administered under

Act XX of 1856. Outside of these, local affairs are administered by the District board, which had an income of 1.7 lakhs in 1903-4, chiefly derived from a grant from Provincial revenues. The expenditure included a lakh devoted to roads and buildings.

The District Superintendent of police has two Assistants, one of whom is posted to Lalitpur. The ordinary force, which is distributed in 39 police stations, includes 7 inspectors, 185 subordinate officers, and 784 men, besides 215 municipal and town police, and 1,528 rural and road police. A Superintendent of Railway Police also has his head-quarters at Jhānsi city. The District jail contained a daily average of 267 prisoners in 1903.

Jhānsi takes a high place in regard to the literacy of its inhabitants, of whom 4 per cent. (7-7 males and 0-3 females) could read and write in 1901. The number of public schools fell from 98 in 1880-1 to 85 in 1900-1, but the number of pupils increased from 2,537 to 2,962. In 1903-4 there were 167 such schools with 5,982 pupils, of whom 146 were girls, besides 39 private schools with 529 pupils. Two schools are managed by Government and 133 by the District and municipal boards. All the schools but two are primary. The total expenditure on education in 1903-4 was Rs. 41,000, of which Local funds provided Rs. 37,000, and fees Rs. 3,000.

There are 10 hospitals and dispensaries, with accommodation for 170 in-patients. About 62,000 cases were treated in 1903, including 1,383 in-patients, and 3,000 operations were performed. The total expenditure was Rs. 15,000, chiefly met from Local funds.

In 1903-4, 23,000 persons were successfully vaccinated, representing a proportion of 38 per 1,000 of population. Vaccination is compulsory only in the Jhānsi cantonment and in the municipalities.

[District Gazetteer (1874, under revision): W. H. L. Impey and J. S. Meston, Settlement Report, excluding Lalitpur (1893); H. J. Hoare, Settlement Report, Lalitpur subdivision (1899); P. C. Mukherji, Antiquities in the Lalitpur District (1899); A. W. Pim, Final Settlement Report, including Lalitpur (1907).

Jhānsi Tahsīl.—Head-quarters tahsil of Jhānsi District, United Provinces, conterminous with the pargana of the same name, lying between 25° 8′ and 25° 37′ N. and 78° 18′ and 78° 53′ E., with an area of 499 square miles. Population fell from 145,680 in 1891 to 145,371 in 1901, the rate of decrease being the lowest in the District. There are 210 villages and three towns, Jhānsi (population, 55,724), the District and tahsīl head-quarters, and Barwā Sāgar (6,355) being the largest. The demand for land revenue in 1903—4 was Rs. 1,20,000, and for cesses Rs. 21,000. The density of population, 291 persons per square mile, is considerably above the District average. This tahsīl is the best and most stable in a very precarious District. The

Pahûj forms part of the western boundary; and the Betwā, after flowing along the south-east, crosses Native territory and then traverses the northern portion of the tahal, giving off the Betwā Canal. In the north lies a good tract of kābar or black soil and parwā or loam; this area is thickly populated and closely cultivated, while field embankments to hold up water are common. About the centre of the tahal the country changes to a broken tract of hilly uplands, and the soil is stony and poor, but is manured near the village sites and irrigated from wells worked by the Persian wheel. Farther south jungle is more common, and the people depend largely on the pasturing of cattle. In 1902-3 the area under cultivation was 171 square miles, of which 28 were irrigated, chiefly from wells.

Jhānsi City. Administrative head-quarters of the District and lahst of the same name, with cantonment, in the United Provinces, stuated in 25° 27' N. and 78° 35' E., on the road from Cawnpore to Saugor, and on the Great Indian Pennsula Railway: 799 miles by rail from Calcutta, and 702 from Bombay. Under Native rule the population of Jhānsi was about 30,000 in 1872 and 33,000 in 1881. After its cession in 1886, population rose to 53,779 in 1891 and 55,724 in 1901. Hindus numbered 41,029 in 1901 and Musalmāns 11,083, while there were about 2,000 Christians. The population in municipal limits was 47,881 and in cantonments 7,843.

Ihansi city, which is sometimes known as Balwantnagar, owes its foundation to Bir Singh Deo, Rājā of Orchha, who built a fort here in 1613. A town sprang up and remained in the possession of the Bundelās till 1742, when it was seized by the Marāthās, who had already acquired property in the neighbourhood under the will of They added to the fort, and the town continued to be Chhatarsāl. the seat of a governor. The rapid growth of Thansi during this period was partly due to the foreible removal of people from other places. It was subsequently held for a few months by Shujā-ud-daula, Nawāb of Oudh, and was wrested from him by Anup Gui Gosain of Moth, from whom it passed to the Rājā of Orchhā, and in 1766 was again brought under Maratha rule. The British acquired sovereign rights from the Peshwa in 1817; and in 1853 the State of Jhansi lapsed m default of heits, when the city became the head-quarters of a Superintendent subordinate to the Commissioner of the Saugor and Nerbudda Territories. The Mutiny history has been given in that of Julyst District. In 1861 the city, with a large tract adjoining it, was ceded to Sindhia; and the head-quarters of the District, called Jhansi Naoabad ('newly-founded'), included only a small village, with the civil station and cantonment. Jhansi then became the headquarters of a Subah of the Gwalior State, but in 1886 it was restored to the British in exchange for the Gwalior fort and Morar cantonment.

Jhānsi is picturesquely situated round the fort, which crowns a rocky hill. It is a walled city, but has lately been opened up by roads, and a spacious, handsome market-place, called Hardyganj after a recent District officer, has been constructed. An excellent water-supply is obtained from five large wells sunk in the rock towards the close of the eighteenth century. Besides the ordinary courts there are few public buildings, the finest being a hospital built a few years ago. There are many small temples, but none of striking appearance, and part of the old palace of the Rājā is occupied by the police station and a school. Jhānsi is the head-quarters of a Superintending and of an Executive Engineer in the Irrigation branch, and of an Executive Engineer in the Roads and Buildings branch. It is also the chief station of the Church Missionary Society and the American Presbyterian Mission in the District.

A municipality was constituted in 1886. During the ten years ending 1001 the income and expenditure averaged Rs. 48.000 and Rs. 47,000 respectively. In 1903-4 the income was Rs. 73,000, chiefly from octroi (Rs. 56,000); and the expenditure was Rs. 68,000, including conservancy (Rs. 19,000), public safety (Rs. 12,000), administration and collection (Rs. 10,000), and roads and buildings (Rs. 4,000). income and expenditure of cantonment funds during the ten years ending 1001 averaged Rs. 17.000, and in 1003-4 were Rs. 24.000 and Rs. 21,000 respectively. The usual garrison includes British and Native infantry, Native cavalry, and artillery. Thansi is the chief centre in the District for the collection and distribution of agricultural products. Its trade has improved greatly with the extension of railways, which radiate from it in four different directions. There are also small manufactures of brass-ware, fine silk, and coarse rugs. The railway workshops employed over 2,000 hands in 1003, and a small cotton gin and ice factory are situated here. A private firm supplies hay pressed at Jhansi to the military authorities in many parts of the Eastern Command. The municipality maintains three schools and aids twelve others, with a total attendance of 994, besides the District school, which has about 160 pupils.

Jhānzi.—River of Assam, which rises near Mokokchūng in the Nāgā Hills, and, after a northerly course through Sibsāgar District, falls into the Brahmaputra. Its total length is 71 miles, and in its course through the plains it forms the boundary between the subdivisions of Sibsāgar and Jorhāt. In the dry season it becomes very shallow, but during the rains boats of 4 tons burden can proceed as far as the foot of the hills. Molasses, tobacco, salt, oil, and other articles of commerce are brought up the river in the rains and sold or exchanged for betel-nuts. Tea used formerly to be sent down stream to Jhānzimukh, but most of it is now exported by rail. An area of

about 30 square miles in the Simaluguri mauza is injured by the floods of the river, but there are some compensating advantages, as the silt is said to have a fertilizing effect. The Jhanzi is crossed by a bridge on the Assam-Bengal Railway, and by four ferries.

Jhariā.—Coal-field in Mānbhūm District, Bengal. See Mānbhūm. Jhelum District (Jehlam).—District in the Rāwalpindi Division of the Punjab, lying between 32° 27′ and 33° 15′ N. and 72° 32′ and 73° 48′ E., with an area of 2,813 square miles. Its length from east to west is 75 miles, its breadth increasing from 2 miles in the east to 55 in the west. It is bounded by the Districts of Shāhpur and Attock on the west, and by Rāwalpindi on the north; while the Jhelum river separates it from Kashmīr territory on the north-east, and from Gujrāt and Shāhpur on the south-east and south.

The District falls naturally into three divisions. Of these the north-castern, which includes the Chakwal tahsil and the narrow Pabbi tract

Physical aspects.

in the north of the Jhelum tahsil, is a wide and fertile plateau ranging from 1,300 to 1,900 feet above the sea, with a decided slope to the north-west, until at

the Sohan river it reaches the boundary of the District. This plateau is intersected by numerous ravines, which, with the single exception of the Bunha torrent on the east, drain into the Sohan. To the south it culminates in the SALT RANGE, which runs in two main ridges from east to west, now parallel, now converging, meeting in a confused mass of peaks east of Katās and opening out again. Between these ranges a succession of fertile and picturesque valleys, set in oval frames by the hills, never more than 5 miles in width and closed in at either end-The Salt Range runs at a uniform height of 2,500 feet till it culminates in the peak of Chail (3,701 lcet). At the eastern end of the Salt Range two spurs diverge north-eastwards, dividing the Jhelum tahsil into three parallel tracts. The northernmost of these, the Pabbi, has already been described. The central tract, lying between the Nili and the Tilla spurs, is called the Khuddar, or 'country of ravines.' The whole surface seems to have been crumpled up and distorted by converging forces from the north and south. Lastly, south of the Tilla range, lies the riverain tract, which extends along the river from Jhelum town in the north-cast to the Shahpur border. Broken only near Jalalpur by a projecting spur of the Salt Range proper, this fertile strip has a breadth of about 8 miles along the southern boundary of the Ihelum and Pind Dådan Khan tahsils.

The greater part of the District lies on the sandstones and conglomerates of the Siwālik series (Upper Tertiary), but towards the south the southern scarp of the Salt Range presents sections of sedimentary beds ranging from Cambrian upwards. The lowest bed contains the salt marl and rock-salt. The former is of unknown age, but appears to be overlain by a purple sandstone, followed by shales containing Lower Cambrian fossils. These are again overlain by the magnesian sandstone and salt pseudomorph zone of the Punjab. The latter zone is followed by a boulder-bed and shales, and saudstones of Upper Carboniferous or Permian age, overlain by Lower Tertiary sandstone and Nummulitic limestone. In the eastern part of the Salt Range, the fossiliferous Productus limestone and ceratite beds are apparently absent, and there is a gap in the geological sequence between Lower Permian and Tertiary. Coal occurs in the Lower Tertiary beds at Dandot and Bāghānwāla.

The flora of the lower elevation is that of the Western Punjab; in the north-east the Outer Himālaya is approached; while the Salt Range has a vegetation of its own which combines rather different elements, from the north-west Indian frontier to the hills east of Simla. Trees are rare, except where planted or naturalized, but the phūlāhi (Acacia modesta) is abundant in the hills and ravine country. At Khewra the salt outerops have a special flora, found in similar places in Shāhpur and across the Indus.

In the hills hyenas, jackals, and a few wolves and leopards are found. The Salt Range is a favourite haunt of the uriāl; 'ravine deer' (Indian gazelle) are plentiful in the western hills. Sand-grouse, partridge (black and grey), chikor, and sīsī are met with, and a great variety of wild-fowl haunt the Jhelum. Flocks of flamingo are found on the Kallar Kahār lake, and quail are not uncommon. Dhangrot on the Jhelum is a well-known place for mahseer fishing.

The climate is good. In the hills the heat is never extreme, though the adjoining submontane tract is one of the hottest in the Punjab. The rest of the District has the ordinary climate of the Western Punjab plains—excessive heat for half the year, with a long and bracing cold season, and the usual feverish seasons. In the winter a bitter north wind prevails in the Salt Range and the northern plateau, light snow on the hills is not uncommon, and once or twice in a generation a heavier fall extends to other parts of the District. Here and there guinea-worm, due to bad water, severely affects the population. The annual rainfall varies from 16 inches at Pind Dādan Khān to 24 inches at Jhelum. Of the fall at Jhelum, 6 inches are received in winter and 18 inches in the summer months. The local distribution is very variable. The tracts at the foot of the Salt Range often remain dry while heavy rain is falling in the hills, and rain in the east of the Jhelum tahsīl sometimes does not extend to the west.

The early annals of Jhelum present more points of interest than its

¹ See 'Geology of the Salt Range,' Memoirs, Geological Survey of India, vol. air; C. S. Middlemiss, 'Geology of the Salt Range,' Records, Geological Survey of India, vol. xxiv, pt. i.

records in modern times. Hindu tradition represents the Salt Range as the refuge of the Pandavas during the period of their exile, and every salient point in its scenery is connected with History some legend of the national heroes. The conflict hetween Alexander and Porus probably took place in or near the present District, though the exact spot at which the Macedonian king effected the passage of the Ihelum (or Hydaspes) has been hotly disputed. Sir Alexander Cunningham supposed that the crossing was at Talalpur, which he identified with the city of Bucephala; and that the battle with Porus-a Greek corruption of the name Purusha-took place at Mong, on the Guirat side, close to the field of Chilianwala. A later writer (Mr. V. A. Smith) holds that the battle-field was ten miles north-east of Ihelum town. When the brief light cast upon the country by Arrian and Curtius has been withdrawn, we have little information with reference to its condition until the Muhammadan conquest. In the interval it must have passed through much the same vicissitudes as the neighbouring District of Shahour.

The lanius and lats, who, along with other tribes, now hold the Salt Range and the northern plateau respectively, appear to have been the earliest inhabitants. The former are doubtless pure Raiputs, while the lats are perhaps their degenerate descendants. The Gakhars seem to represent an early wave of conquest from the west, and they still inhabit a large tract in the east of the District; while the Awans, who now cluster in the western plain, are apparently later invaders, The Gakhars were the dominant race at the period of the first Muhammadan incursions; and they long continued to retain their independence, both in Jhelum itself and in the neighbouring District of Rawalpindi. During the flourishing period of the Mughal dynasty. the Gakhar chieftains were among the most prosperous and loyal vassals of the house of Babar. But after the collapse of the Delhi empire, Thelum fell, like its neighbours, under the sway of the Sikhs. In 1765 Guiar Singh deteated the last independent Gakhar prince, and reduced the wild mountaineers of the Salt Range and the Murree Hills to subjection. His son succeeded to his dominions until 1810, when he fell before the irresistible power of Ranjit Singh. Under the Lahore government the dominant classes of Ihelum suffered much from fiscal exactions; and the Janjua, Gakhar, and Awan families gradually lost their landed estates, which passed into the hands of their lat dependants. The feudal power declined and slowly died out, so that at the present time hardly any of the older chieftains survive, while their modern representatives hold no higher post than that of village headman.

In 1849 Jhelum passed with the rest of the Sikh territories into the power of the British. Ranjit Singh, however, had so thoroughly

subjugated the wild mountain tribes who inhabited the District that little difficulty was experienced in reducing it to working order. In 1857 the 14th Native Infantry stationed at Jhelum town mutinied, and made a vigorous defence against a force sent from Rāwalpindi to disarm them, but decamped on the night following the action, the main body being subsequently arrested by the Kashmīr authorities, into whose territory they had escaped. No further disturbance took place. The subsequent history of Jhelum has been purely fiscal and administrative. On April 1, 1904, the tohsīl of Talagang was detached from the District and incorporated with the new District of Attock.

The country is still studded with interesting relics of antiquity, among which the most noticeable are the ruined temples of Katās, built about the eighth or ninth century A.D., and perhaps of Buddhist origin. Other religious ruins exist at Malot and Shivgangā; at Jhelum town an old mound has yielded utensils of Greek shape, and the remains of an old Kashmīrī temple; while the ancient forts of Rohtās, Girjhak, and Kusāk, standing on precipitous rocks in the Salt Range, are of deep interest for the military historian. Indeed, the position of Jhelum on the great north-western highway, by which so many conquerors have entered India, from the Greek to the Mughal, has necessarily made it a land of fortresses and guarded defiles, and has turned its people into hereditary warriors.

The population of the District at the last three enumerations was: (1881) 494,499, (1891) 514,090, and (1901) 501,424, dwelling in 4 towns and 888 villages. It decreased by 2-4 per cent. during the last decade. The District is divided into the three taksils of JHELUM, PIND DĀDAN KHĀN, and CHAKWĀL, the head-quarters of each being at the place from which it is named. The chief towns are the municipalities of JHELUM, the administrative head-quarters of the District, and PIND DĀDAN KHĀN. The following table shows the chief statistics of population in 1901:—

| Taksil. | Area in square miles. Towns. Towns. Villages of variation per square mile. Percentage of variation in population be mad soot and soot and soot and soot and soot. | Number of persons able to read and |
|-----------------|---|--|
| Jhelum. | 903 1 433 170,978 189-3 - 3-4 | 8,695 |
| Chakwāl | 1,004 2 248 160,316 159-7 - 2-8 | 6,785 |
| Pind Dādan Khān | 875 1 207 170,130 194-4 - 1-7 | 7,126 |
| District total | 2,813 4 888 501,424 178-3 - 9-4 | 22,606 |

NOTE.—The figures for the areas of takerils are taken from revenue returns. The total District area is that given in the Consus Report.

Muhammadans number 443,360, or 89 per cent. of the total:

Hindus, 43,693; and Sikhs, 13,950. The language of the people is Western Puniābi.

The most numerous tribe is that of the Jats, who number 73.000. or 14 per cent. of the total population. Next to them numerically are the Rajputs (52,000) and Awans (51,000). Other important agricultural castes are the Maliars (23,000), Mughals (21,000), Gujars (20,000). Gakhars (11,000), and Kahūtas (10,000), the latter almost entirely Saivids number 13,000. Of the comconfined to this District. mercial and money-lending classes, the most numerous are the Khattris (17,000). Aroras returning only 0,000. Brāhmans number 5,000. Of the artisan classes, the Julāhās (weavers, 23,000), Mochīs (shoemakers and leather-workers, 10,000), Tarkhans (carpenters, 14,000). Kumhars (potters, 10,000), Lohārs (blacksmiths, 8,000), and Telis (oil-pressers. 7.000) are the most important. Kashmiris number 12.000. chief menial classes are the Musallis (sweepers, 18,000), Nais (barbers, 0.000). Machine (fishermen, bakers, and water-carriers, 6.000), and Dhobis (washermen, 5,000). The Lilla Jats (1,000), an agricultural tribe found only in this District, also deserve mention. Of the whole population, 61 per cent, are supported by agriculture. The leading tribes Gakhars, Awans, Janiuas, and other Raiputs--enlist freely in the Indian army.

The American United Presbyterian Mission has a branch at Jhelum town, where work was started in 1873, and the Roman Catholic missionaries maintain a school at Dalwal in the Salt Range. In 1901 the District contained 111 native Christians.

The area irrigated by artificial means is a tenth of that cultivated in the Pind Dādan Khān tahsīl, but only one per cent, in the Chakwāl

Agriculture. and Jhelum tahsils. Cultivation thus depends on the local rainfall, eked out by the drainage from higher ground. The country is in parts seamed by torrent beds, and the soil varies from the infertile sand brought down by them to a rich loam and the stony soil of the hill-sides. In the greater part of the unirrigated land a spring crop is followed by an autumn crop; but the best land receiving drainage from higher ground is generally reserved for the spring, and in the tract under the hills in Pind Dādan Khān the lands for the autumn and spring harvests are kept separate.

The District is chiefly held by communities of small peasant proprietors, large estates covering only about 103 square miles. The area for which details are available from the revenue records of 1903-4 is 2,767 square miles, as shown on the next page.

The chief crops of the spring harvest are wheat, barley, gram, and oilseeds, the areas under which in 1903-4 were 477, 26, 34, and 80 square miles respectively; and in the autumn harvest, jowar, bājra, and pulses, which covered 16, 207, and 28 square miles respectively.

Between the settlements of 1864 and 1881 the cultivated area increased by 41 per cent., while the area cultivated at the settlement of 1901 showed an increase of 13 per cent. on that of 1881. The new cultivation of the last twenty years is, however, greatly inferior to the old, and there is but little prospect of further extension. Loans for the construction of wells are extremely popular, and Rs. 25,700 was advanced under the Land Improvement Loans Act in the District as now constituted during the five years ending 1904.

| Tahsil | Total. | Cultivated. | Irrigated. | Cultivable waste. | Porests. |
|--------------------------------------|---------------------|--------------------|--------------|-------------------|------------------|
| Jhelum Chakwā! Pind Dādan Khān | 888 1,004 875 | 3.39 516 329 | 4 6 35 | 46 49 84 | 138 36 172 |
| Total | 2.767 | 1,174 | 45 | 179 | 346 |

The Dhanni breed of horses found in the Dhan or plateau north of the Salt Range has long been held in high estimation, being mentioned in the Ain-i-Akharr, while good horses are found all over the District. The Army Remount department maintains 4 horse and 11 donkey stallions, and the District board 2 horse stallions. The Dhanni-breed of small cattle is also well-known. Camels are largely used for carrying burdens, but the breed is poor. Both the fat-tailed and ordinary sheep are kept, and the goats are of a fair quality.

Of the total area cultivated in 1903-4, 45 square miles, or 3-8 per cent., were classed as irrigated by wells and canals. In addition, 47 square miles, or 4 per cent. of the cultivated area, are subject to inundation from the Jhelum. The wells, which number 4,781, are chiefly found along the river and in the level portion of the Jhelum tahsil; they are all worked by cattle with Persian wheels. Canalirrigation is at present confined to two small cuts in the Pind Dādan Khān tahsīl, one Government, the other private; but it is proposed to absorb the former in a larger canal commanding about 50,000 acres. The cultivation from the hill streams is unimportant, though where it exists no land is so profitable. Much of the unirrigated land is embanked and catches the drainage from higher ground.

The District contains 260 square miles of 'reserved' and 97 of unclassed forest under the Forest department, besides 43 square miles of unclassed forest and waste land under the Deputy-Commissioner, and one mile of military reserved forests. These consist mainly of the scattered scrub of phūlāhi, wild olive, uhhānh, and leafless caper, which clothe the hills. Some of the forest lands are stretches of alluvial grazing-ground, known as belās, along the Jhelum. In 1904-5 the revenue from the forests under the Forest department was Rs. 82,000, and from those under the Deputy-Commissioner Rs. 9,000.

Salt is found in large quantities in the Salt Range. It is excavated at Khewra and Nürpur, but outcrops are found in many places; and, in addition to the employés of the Khewra mines, a large preventive staff has to be maintained to prevent salt from being mined. Coal occurs in many places in the Salt Range. It is mined at Dandot by the North-Western Railway, and by a private firm at Bāghānwāla. Gypsum occurs in the marl beds above the salt strata of the Salt Range. Stone for road-making or railway ballast is, plentiful, and good sandstone and limestone for building are frequently met with. Clay for pottery is also found. Fragments of copper and earthy iron hematites occur, but are quite unimportant. Sulphuret of lead or galena is found in small nodules in two or three localities. Quartz crystals are found in the gypsum of the Salt Range. Gold is washed in the beds of the torrents which flow into the Sohān, but the out-turn is insignificant.

Trade and Communications.

Boat-building is carried on at Jhelum and at Pind Dadan Khan, and brass vessels and silk lungss are made at the latter town. Water-mills are frequently used for grinding corn.

Jhelum town is an important timber dépôt, being the winter head-quarters of a Kashmir Forest officer who supervises the collection of the timber floated down the river. There is a large export of timber by both rail and river and of salt from Khewra, but otherwise the trade of the District is unimportant. Brass and copper ware is exported from Pind Dādan Khān. Stone is also exported, and in good seasons there is a considerable export of agricultural produce. The chief imports are piece-goods and iron. Jhelum town and Pind Dādan Khān are the centres of trade, and a considerable boat traffic starts from the latter place down the river. The completion of the railway system, however, has already ruined the trade of Pind Dādan Khān, and is fast reducing Jhelum town to the position of a local dépôt.

The main line of the North-Western Railway traverses the east of the District, passing through Jhelum town, while the Sind-Sāgar branch runs through the south of the Pind Dādan Khān tahsīl with a branch to Khewra, whence a light railway brings down coal from Dandot. A branch from the main line to Chakwāl has been suggested, but has not been surveyed. Owing to the rugged nature of the country, the roads are not good. The only road used for wheeled traffic is the grand trunk road, which traverses the District by the side of the main line of rail; elsewhere pack animals are used. The only other route on which there is much traffic is that leading from Pind Dādan Khān by Khewra to Chakwāl. The Jhelum is navigable to about 10 miles above Jhelum town. It is crossed by a railway

bridge with a track for wheeled traffic at Jhelum, by another with a footway only in the Pind Dādan Khān tahsīl, and by fourteen minor ferries.

The District suffered from the great chālīsa samine of 1783, and there was samine in 1813 and 1834. Locusts did a great deal of damage in 1848. In 1860-1, though the scarcity in other parts of the Province caused prices to rise, the crops here did not sail to any serious extent. In 1896-7 there was considerable distress, and test works were started, but were not largely attended. The worst samine since annexation was that of 1899-1900. It was, however, more a fodder than a grain samine; and though there was acute distress and test works were opened, it was not considered necessary to turn them into samine works. The greatest daily number relieved in any week was 3,955, and the total expenditure was Rs. 39,000.

The District is divided into the three tahsils of JHELUM, PIND DADAN KHAN, and CHAKWAL, each under a tahsildar and a naibtahsildar. The Deputy-Commissioner is aided by three Assistant or Extra-Assistant Commissioners, of whom one is in charge of the Pind Dadan Khan subdivision and another of the District treasury.

The Deputy-Commissioner as District Magistrate is responsible for criminal justice. Civil judicial work is under a District Judge, and both officers are subordinate to the Divisional and Sessions Judge of the Jhelum Civil Division. There are three Munsifs, one at head-quarters and one in each tahsil. The predominant form of crime is cattle-theft, while murders are also frequent.

The Sikh demand for land revenue cannot be shown with any accuracy. They took what they could get, but their average receipts during the last four years of their rule would seem to have been 7 lakhs. After the second Sikh War, when Jhelum passed into British possession, a summary settlement was made, yielding slightly less than the Sikh assessment. In 1852 a second summary settlement was undertaken, to correct the more obvious inequalities of the first. the whole, both of these worked well, though some proprietors refused to pay the revenue fixed, and surrendered their proprietary rights. The first regular settlement, made in 1855-64, assumed half the net 'assets' as the share of Government, and fixed the demand at 64 lakhs. next settlement (1874-81) raised the revenue by 18 per cent.; but this was easily paid, until a succession of bad harvests made large suspensions and some remissions necessary. In the present settlement (1895-1901) a further increase of 26 per cent. has been taken, but it is recognized that frequent suspensions will be needed. The average assessment on 'dry' land is Rs. 1-3 (maximum Rs. 2, minimum

6 annas), and on 'wet' land Rs. 3-2 (maximum Rs. 5, minimum Rs. 1-4). The demand on account of land revenue and cesses in 1903-4 for the District as now constituted was 8-8 lakhs. The average size of a proprietary holding is 18 acres.

The collections of land revenue alone and of total revenue are

shown below, in thousands of rupees:--

| | | 1880 t | İ. | 1890-1 | _ / | 1900-1 | 1903 4 | |
|-----------------------------------|---|--------------|----|--------------|-----|--------------|---------------|--|
| Land revenue . Total revenue . | 1 | 7,88 9,70 | | 6,50 8,50 | , | 4,19 7,47 | 9,89 13,47 | |

NOTE "These figures are for the District as constituted before the separation of the Talagang tohail in 1904.

The District contains two municipalities, JHELLM and PIND DADAN KHAN, and one 'notified area,' CHANNAL. Outside these, local affairs are managed by the District board, the income of which is mainly derived from a local rate, and amounted in 1903-4 to Rs. 93,000. The expenditure was Rs. 88,000, the principal item being education.

The regular police force consists of 450 of all ranks, including 8 cantonment and 81 municipal police, and the Superintendent usually has 4 inspectors under him. Village watchmen number 615. There are 14 police stations and 2 road-posts. The District jail at head-quarters has accommodation for 295 prisoners.

The District stands sixth among the twenty-eight Districts of the Province in respect of the biteracy of its population. In 1901 the proportion of literate persons was 4-5 per cent. (8-5 males and 0-4 females). The number of pipils under instruction was 3,964 in 1880 1, 12,020 in 1890 1, 12,386 in 1900 1, and 14,869 in 1903-4. In 1904-5 the number of pipils in the District as now constituted was 12,144. In the same year the District contained 9 secondary and 95 primary (public) schools, and 3 advanced and 212 elementary (private) schools, with 454 girls in the public and 395 in the private schools. There are two Anglo-vernacular high schools, at Jhelum town and Pind Dādan Khān. The total expenditure on education in 1904 5 was Rs. 54,000.

Besides the civil hospital at Jhelum town, the District contains four outlying dispensaries. In 1904 a total of 76,560 out-patients and 1,451 in-patients were treated, and 2,859 operations were performed. The expenditure was Rs. 15,000, District funds contributing Rs. 6,000 and municipal funds Rs. 9,000. The American Presbyterian Mission also maintains a hospital at Jhelum.

The number of successful vaccinations in 1903-4 was 14,498, repre-

 $^{^{-1}}$ All these figures apply to the District as constituted before the separation of the Talagang tahsil in 1904.

senting 28-9 per 1,000 of the population. The Vaccination Act has been extended to the towns of Jhelum and Pind Dādan Khān.

[W. S. Talbot, District Gazetteer (in press); Settlement Report (1902); and General Code of Tribal Custom in the Jhelum District (1901)]

Jhelum Tahsil (Jehlam).—Eastern tahsil of Jhelum District, Punjab, lying between 32° 39′ and 33° 15′ N. and 73° 9′ and 73° 48′ E., with an area of 888 square miles. It is bounded on the east and south-east by the Jhelum river, which divides it from Kashmir and Gujrāt District. The population in 1901 was 170,978, compared with 177,046 in 1891. The head-quarters are at the town of Jhelum (population, 14,951). It also contains 433 villages. The land revenue and cesses in 1903-4 amounted to 2-7 lakhs. The tahsil is traversed from south-west to north-east by two spurs of the Salt Range, the more easterly of which culminates in the peak of Tilla. Between this and the Jhelum river is an almost level alluvial plain of great fertility, while between the two spurs the country is seamed with ravines. The fort of Rohtās is of historical interest.

Ihelum Town (Iehlam).—Head-quarters of the District and talist of Ihelum, Punjab, situated in 32° 56' N. and 73° 47' E., on the right bank of the Ihelum river and on the North-Western Railway: distant by rail 1.367 miles from Calcutta, 1.403 from Bombay, and 840 from Karāchi. Population (1901), 14,951. The present town is of modern origin, the old town, which may have been the Bucephala of Alexander. having been on the left or opposite bank of the river. Under Sikh rule the place was quite unimportant, being mainly occupied by a settlement of boatmen, and at the time of annexation contained about 500 houses. It was then chosen as the site of a cantonment, and as the headquarters of the civil administration. For some years it was the seat of the Commissioner of the Division, but in 1850 his head-quarters were transferred to Rāwalpindi. Under British rule Ihelum has steadily advanced in prosperity; and it is the entrepôt for most of the trade of the District, though, since the completion of the Sind-Sagar branch of the North-Western Railway, the salt trade no longer passes through It is an important timber dépôt, the timber from the Kashmir forests which is floated down the river being collected here. A good deal of boat-building is carried on. The cantonment, which is a miles from the civil station, contains the church and post office. The normal strength of the garrison is one Native cavalry and four Native infantry regiments. The municipality was founded in 1867. During the ten years ending 1902-3 the receipts averaged Rs. 32,100, and the expenditure Rs. 31,000. Receipts and expenditure from cantonment funds in the same period averaged Rs. 5,900 and Rs. 6,100, respectively. The income of the municipality in 1903-4 was Rs. 34,200, chiefly from

octroi; and the expenditure was Rs. 41,000. The town possesses two Anglo-vernacular schools, a municipal high school, and a middle school maintained by the American Presbyterian Mission. Besides the civil

hospital, the mission also maintains a hospital.

Jhelum (Jehlam).—River in Kashmīr and the Punjab, being the most westerly of the five rivers from which the Punjab derives its name. It was known to the Muhammadan historians as the Bihat, Wihat, or Bihatab, corruptions of its Sanskrit name Vitastā (which Alexander's historians graecized into Hydaspes, but Ptolemy more correctly as Bidaspes), while its modern Kashmīrī name is Veth. It may be said to have its source in a noble spring of deep-blue water, which issues from the bottom of a high scarp of a mountain spur. The spring is known as Vernāg; and at Khānabal, 15 miles north, its waters join the streams of Adpat, Bring, and Sandran, and form the starting-point of navigation. The river is navigable without a single lock from Khānabal to Bāramūla, 102 miles. In its course to the Wular Lake, which may be regarded as a delta of the river, the fall is 165 feet in the first 30 miles and 55 feet in the next 24 miles. From the Wular Lake to Bāramūla the fall is very slight.

The Jhelum river has many tributaries. On its right bank it receives the Liddar or Lambodri, which comes down from the everlasting snows overlanging the head of the Liddar valley, and from the mountain lake of Tarsar. Below Srinagar at Shādipur--the place of the marriage of the two rivers -the Sind river joins the Jhelum; and beyond the Wular Lake the Pohru stream, which drains the Lolāb valley, merges in the great river. On the left bank the chief tributaries are the Vishay, the Rembiara, the Ramshi, the Dudgangā, the Suknāg, and the Ferozepura. The Dudgangā joins the Jhelum at the lower end of Srinagar city.

Below Băramula (5,000 feet) the placed Jhelum leaves the fertile banks of the valley, and rushes headlong down a deep gorge between lofty mountains of the Kazināg range on the north and an extension of the Pir Panjāl on the south to Kohāla, 2,000 feet. At Muzaffarābād the Kishangangā river joins the Jhelum on its right bank, while a few miles lower down, and on the same side, the Kunhār river, which drains the Hazāra country, adds no inconsiderable volume of water. Between Khānabal and Bāramūla there are many bridges, but between Hāramūla and Domel, where the Kishangangā river joins the Jhelum, the bridges are scarce and primitive. Much of the internal commerce of Kashmir depends on the Jhelum. An account of the various descriptions of boats used is given in the article on Srīnagar.

Below its junction with the Kishanganga the Jhelum forms the boundary between the Kashmir State and the British Districts of Hazara and Rawalpindi, flowing in a narrow rocky bed, shut in by mountains

on either side. Numerous rapids here render navigation impossible. though large quantities of timber are floated down from Kashmir. A handsome suspension bridge at Kohāla in Rāwalpindi District connects Kashmir with British territory. Below Dangalli, 40 miles east of Rawalpindi, the Ihelum becomes navigable. Passing into Ihelum District, it skirts the outlying spurs of the Salt Range, receiving the waters of the Kahan, and finally debouches upon the plains a little above the town of Ihelum, about 250 miles from its source. Below the town, inundation of the lowlands begins to be possible, and sandy islands stud the wide bed of the stream. The Bunha, in the rains a roaring torrent which sometimes spreads over a mile of country, joins the Ihelum at Dārāpur. After a south-westerly course of more than 100 miles, during which the river divides the District of Thelum from Guirat and Shahpur, it enters the latter District entirely, and trends thenceforth more directly southward. The width in this portion of its course averages 800 yards in flood, dwindling during the winter months to less than half that size. Sudden freshes occur after heavy rains, and cause frequent inundations over the lowlands, greatly increasing the productive power of the soil. The Ihelum next enters the District of Thang, where it preserves the same general characteristics, but with a wider valley, bounded by the high uplands known as the Bar. It finally joins the Chenab at Trimmu, in 31° 11' N. and 72° 12' E. to miles to the south of Maghiana, after a total course of not less than 450 miles, of which about 200 lie within British territory. The current in the plains has an average rate of 4 miles per hour. The wedge of land between the Ihelum and the Chenab is known as the Chai Doab: while the tract stretching westward to the Indus bears the name of the Sind Sāgar Doāb.

The principal towns upon the Jhelum are Kashmir or Srinagar, Jhelum, Pind Dādan Khān, Miāni, Bhera, and Khushāb. According to General Cunningham, the point where Alexander crossed the Hydaspes may be identified with Jalālpur in Jhelum District; while nearly opposite, on the Gujrāt bank, stands the modern battle-field of Chiliānwāla. Other writers hold that the passage was effected near Jhelum town. A bridge of boats crosses the river at Khushāb. The permanent railway bridge of the North-Western Railway also crosses it at the town of Jhelum, and the Sind-Sāgar line at Haranpur. The LOWER JHELUM CANAL takes off at Mong Rasūl in Gujrāt District.

Jhelum Canal, Lower.—A perennial irrigation work in the Punjab now approaching completion. It takes off from the left bank of the Jhelum river, and will eventually supply perennial irrigation to the whole of the country lying between the Jhelum and the Chenāb, west of a line joining the town of Miāni on the Jhelum with Pindi

Bhattian on the Chenab. The head of the canal is near the village of Mong Rasul in Guirat District. The river is dammed by a weir 4.100 feet long, and a regulator across the head of the canal takes the form of a bridge of eight spans of 244 feet each. The main line has a bed width of 140 feet, and will have when running full a depth of 7.5 feet, and a discharge of 1,800 cubic feet per second, or twice that of the Thames at Teddington. The Shahpur branch will take off at about the twenty-eighth mile of the main line. This branch has been designed to take up the irrigation now performed in Shahpur District by the existing Imperial, Provincial, and privately-owned inundation canals. After a course of 39 miles, in which it gradually approaches the centre of the highlands of the Doab, the canal bifurcates into two main branches, watering the northern and southern portions of the Doals respectively. The total length of the main line and main branches is about 167 miles, and about 960 miles of distributing channels will be constructed. The canal will protect an area of 2,400 square miles, and is expected to irrigate annually about 1,200 square miles. Of the 2,400 square miles protected, about 850 are crown waste, which it is intended to turn into an immense horse-breeding colony for the supply of remounts to the Indian Army. For this purpose the greater portion has been leased out to colonists on the condition of their keeping an approved brood mare, and other areas have been reserved for public and private breeding establishments and horse runs. The work of colonization is under an officer of the Indian Civil Service, who has his head quarters at Sargodha in Shāhpur District. The land has been divided into squares of nearly 28 acres each. and one brood mare has to be maintained for every 21 squares. A railway has been constructed from Malakwal on the Sind-Sagar line to Shorkot on the Lyallpur-Khanewal line, affording facilities for the immigration of colonists and the export of their produce.

Elaborate precautions have been taken to prevent waterlogging of the soil by over-irrigation. The depth at which spring-water is found below the surface of the ground has been carefully observed over the whole of the commanded area, and the country has been divided into three zones according to those depths. Where the spring-level is 40 feet or more below the surface, 50 per cent, of the gross area commanded may be irrigated; where the depth lies between 25 and 40 feet, 40 per cent, of the area will be irrigated; and where the water is nearer to the surface than 25 feet, only 25 per cent, will be allowed perennial irrigation, and powers have been reserved to reduce these supplies if they should be found to be in excess of requirements. On the Shāhpur branch 50 per cent, of the area will be irrigated.

The canal was opened on October 30, 1901; and irrigation is now well advanced, except on the Shāhpur branch, the construction of

which has only just been commenced. It is estimated that this canal will cost when finished 187.5 lakhs, and will give a return of 15.8 per cent. on the capital spent upon it, and that ten years after completion the net revenue will exceed the interest charges by 192 lakhs.

Ihelum Colony.—Colony on the Ihelum Canal, in the District and tahsil of Shahpur, Punjab. The total area to be irrigated from the Ihelum Canal amounts to 2,302 square miles, lying partly in Ihang and partly in Shahpur District. Of this, 750 square miles of waste land in the Bar or upland of the southern part of Shahpur District belong to Government; and upon it colonists are being settled in villages, on the same terms as the colonists in the CHENAR COLONY. but the majority of grants have been made on the condition that a suitable mare is maintained for breeding purposes. Up to the end of 1904 about 231 square miles had been allotted to grantees. A large area has also been allotted for Imperial horse and mule runs and for regimental stud farms. The head-quarters of the colony are at SAR-CODHA, the head-quarters of the new Sargodha tahsil, which is fast rising into an important town. It is connected by the new Iech Doab branch of the North-Western Railway with Malakwal on the Sind-Sagar line, and with Shahpur by a new metalled road. The railway is also being extended to Shorkot in Jhang District. Wells, roads, and markets are being built, and a complete system of feeder-roads is under construction.

Jhenida Subdivision.- North-western subdivision of Jessore District, Bengal, lying between 23° 22′ and 23° 47′ N. and 88° 57′ and 89° 23′ E., with an area of 475 square miles. The population in 1901 was 304,899, compared with 311,973 in 1891. It contains one town, Kotchāndpur (population, 9,065), and 864 villages. The head-quarters are at Jhenida. The subdivision is a flat, alluvial plain, the surface of which has been raised by the inundations of the Ganges distributary system till it is now beyond the reach of ordinary floods, and no longer receives the deposits of silt which formerly enriched it. It contains the most unhealthy portions of the District. The population has consequently receded, and the density is now 642 persons to the square mile. The principal marts are at Jhenida and Kotchāndpur.

Jhenida Village.—Head-quarters of the subdivision of the same name in Jessore District, Bengal, situated in 23° 33′ N. and 89° 11′ E., on the Nabagangā river, 28 miles north of Jessore town. Population (1901), 798. There is a large bazar, with a trade in sugar, rice, and pepper. Communication was formerly carried on chiefly by means of the river, but this has now to a great extent silted up, and is navigable only below the town and for three months in the year. Jhenida is connected by road with Chuādānga station on the Eastern Bengal

State Railway. It contains the usual public offices; the sub-jail has accommodation for 11 prisoners.

Jher .- Petty State in Mani Kantha, Bombay.

Jherriä.—Coal-field in Mänbhum District, Bengal. See Mänbhum.

Jhingergächa.—Village in the head-quarters subdivision of Jessore District, Bengal, situated in 23° 6′ N. and 89° 8′ E., on the Kabadak river. Population (1901), 736. Jhingergächa is a station on the Eastern Bengal State Railway, and steamers ply between it and Kapilmuni in Khulna District.

Jhinjhāna.—Town in the Kairāna tahsil of Muzaffarnagar District, United Provinces, situated in 29° 31′ N. and 77° 13′ E., on the left bank of the Kathā, 30 miles from Muzaffarnagar town. Population (1901), 5,094. The town is the home of a family of Shakhs who have resided here from an early date. It contains a dargāh of a Muhammadan saint built in 1495 and several monuments of the Shaikhs, the chief being a mosque and tomb built in 1623, decorated with coloured tiles. Jhinjhāna is administered under Act XX of 1856, with an income of about Rs. 1,700. It was formerly very dirty: and although the streets have recently been paved, it is still unhealthy.

Jhinjhuvāda, - Petty State in Kāthtāwār, Bombay.

Jhiri.--River between Manipur State and Cachar District, Eastern Bengal and Assam. See Jiri.

Jhūnjhunu. Head quarters of the tahsil of the same name and of the Shekhāwāti nizāmat in the State of Jaipur, Rājputāna, situated in 28 8' N. and 75° 23' E., about 90 miles north-by-north-west of Jaipur city. Population (1901), 12,279. The place was the head-quarters of the Shekhāwati Brigade, a force maintained by the Darbār from 1836 to 1842 to preserve the peace, and now represented by the 13th Rājputs (the Shekhāwati Regiment). At the eastern end of the town is a suburb still called Forsterganj after the officer who raised and commanded the brigade. To the west is a hill 1,684 feet above sea-level and visible for miles round, it is said to have been seen with the naked eye from a distance of 95 miles. The town contains the mausoleum of Kamar ud-din Shāh, the patron saint of the Kaimkhānis; a Jain temple said to be 1,000 years old; a combined post and telegraph office; 10 schools; and a hospital with accommodation for 4 in-patients.

Jhūsl.-Town in the Phūlpur tahsīl of Allahābād District, United Provinces, situated in 25° 26' N. and 81° 54' E., on the Ganges, opposite its junction with the Jumna. Population (1901), 3,342. Jhūsl has been identified with the Pratisthān or Kesl of the Purānic histories, which was the residence of Purūravas, first king of the Lunar dynasty and son of the moon. It was at one time called Harbongpur after the Rājā Harbong, of whose vagaries and misrule many fables are told.

In the time of Akbar the town was known as Hādiābās. It has recently been suggested that Ihūsī was the Kia-shi-pu-lo visited by Hiven Tsiang. Two great mounds, once the site of forts, are the only visible remains: but gold coins of the Gupta kings, and a copperplate of Trilochana Pāla, dated in A.D. 1027, have been discovered here! Thūsī is administered under Act XX of 1856, with an income of about Rs. 500. There is a small school with 30 pupils.

Jiāgani.—Village in the Lālbāgh subdivision of Murshidābād District, Bengal, situated in 24° 15' N. and 88° 16' E., on the left bank of the Bhagirathi, a miles north of Murshidabad city, and opposite Azīmgani station on the East Indian Railway. Population (1901), 8,734. Though it has somewhat declined in importance, Jiagani is still a large dépôt where rice, jute, silk, sugar, and a small quantity of cotton are collected for export. A jute-press is at work here. Jiagani, which is included within the Azīmgani municipality, is connected with Azīmgani by a ferry, and during the rainy season a steamer plies between it and Dhulian. It contains some large houses, the property of Jain merchants, many of whom dwell here, though the main colony lives in

Jigni, -- A petty sanad State in Central India, under the Bundelkhand Agency, with an area of about 22 square miles. Population (1901), 3,838. It is surrounded by portions of the Hamirpur and Ihansi Districts of the United Provinces. The holders of the jūgir are Bundela Rajputs, the founder being Rao Padam Singh, a son of the famous Chhatarsal, who acquired in 1730 the parganas of Rasin and Badaus (now in Hamirpur District). The jagir, originally a large one, was much reduced during the Maratha invasion, Lachhman Singh managing to obtain only a grant of the two parganas of Rath and Panwārī from the invaders. When the British supremacy was established. Prithwi Singh, Lachhman's son, was in possession of fourteen villages, but in consequence of his contumacy they were attached. In 1810 the six villages which constitute the present holding were restored to him under a sanad. The present jägirdar is Rao Bhanu Pratāp Singh, a cousin of the Mahārājā of Charkhārī, who succeeded by adoption in 1892. Number of villages, 6; cultivated area, 9 square miles; revenue, Rs. 13,000. Jignī, the chief town, is situated in 25° 45' N. and 79° 25' E., on the right bank of the Dhasan river, at the confluence of that stream and the Betwa. Population (1901), 1,770.

Jind State.—One of the Phūlkiān States, Punjab. The State has a total area of 1,332 2 square miles, and comprises three distinct tracts,

¹ Indian Antiquary, vol. zviii, p. 34.

These figures do not agree with the area given in Table III of the article on the PUNJAB, and in the population table on p. 170 of this article, which is the area as returned in 1901, the year of the latest Census. They are taken from later returns.

corresponding to its three tahsils of Sangrūr, Jind, and Dādri. The first, in which lies Sangrur, the present capital of the State, is interspersed among the territories of the other Phūlkiān States, Patiāla and Nābha; the Jīnd tahsīl, lying to the south-east of Sangrūr, is almost entirely surrounded by the British Districts of Karnāl and Rohtak; while on the south of it, and separated from it by Rohtak District, lies the tahsīl of Dādri. Sangrūr lies in the great natural tract known as the Jangal; Jīnd is in the Bāngar and includes a part of Kurukshetraa, the sacred land of the Hindus; and Dādri lies partly in the Bāgar, the desert on the Rājputāna border, and partly in Hariāna.

Physical aspects.

No great river traverses the State; but the Choya torrent passes through Sangrūr, and a still smaller stream, the Jhambūwāli, and the Ghaggar river also enter that taksīl. In Dādri a few villages are fertilized by the Dohān, a seasonal torrent which rises in Jaipur State and loses itself in Rohtak District. With the exception of some low hills, outliers of the Arāvalli system, in the Dādri tahsīl, the State consists of level plains whose monotony is broken only in Sangrur by shifting sandhills.

The flora corresponds (as regards the older parts of the State) with that of Karnāl and Rohtak; in the Dādri tahaīl it is identical with the adjoining tracts of North-Eastern Rājputāna. The fauna is much the same as in the Patiāla plains.

Owing to the scattered character of the State, the climate is not uniform. The Jind tahsil is moist and unhealthy; Dādri is dry, sandy, and healthy; and Sangrür possesses the same characteristics in a less degree. The rainfall is heaviest in Sangrür, where it averages 17 inches a year, while Jind receives about 12 inches. Dādri has the lowest rainfall, 10 inches, and is the tract most subject to drought, the two other tahsils being now protected against famine by canals.

The history of Jind as a separate State dates from 1763, in which year the confederate Sikhs captured Sirhind town from the governor to

whom Ahmad Shāh Durrāni had entrusted it, and partitioned the old Mughal province. The Rājā of Jind is descended from Sukh Chain, a grandson of Phūl, the ancestor of all the Phūlkiān families, who had previously been a mere rural notable. On Sukh Chain's death in 1751 Bālānwāli, which he had founded, fell to Alam Singh his eldest son, Badrukhān to his second son Gajpat Singh, and Dyālpura to Bulāki. On Alam Singh's death in 1754 Bālānwāli also passed to Gajpat Singh, who was the most adventurous of the three brothers, and in 1755 conquered the imperial parganas of Jind and Safidon and overran Pānīpat and Karnāl, but was not strong enough to hold them. In 1766 Gajpat Singh made Jīnd town his capital. Nevertheless he remained a vassal of the Delhi empire and continued to pay tribute, obtaining in return in 1772 an

imperial farman which gave him the title of Raja. In 1774, in consequence of a quarrel with the Raia of Nabba, he attacked Amloh. Bhadson, and Sangrur, which were in the Nabha territories: and though he was compelled by the Raja of Patiala to relinquish the first two places, he succeeded in retaining the last, which has ever since remained part of the lind State. In the next year, the Delhi government made an attempt to recover lind; but the Phulkian chiefs combined to resist the attack, which was repulsed. Gainat Singh built a fort at lind in 1775, and soon after this joined the Rājā of Patiāla in an invasion of Rohtak; but the Mughal power was strong enough to compel them to give up most of their conquests, though Ind retained Panigirain. Again, in 1870, the allies marched on Meerut, but were defeated, and Gainat Singh was taken prisoner by the Muhammadan general, his release being secured only by payment of a heavy ransom. He died in 1780, and was succeeded by two sons - Bhag Singh, who inherited the title of Raia with the territories of find and Safidon; and Bhūp Singh. who obtained Badrukhān.

Rājā Bhāg Singh shrewdly held aloof from the combination against the British; and when Sindhia's power in Northern India was ultimately broken. Lord Lake rewarded him by confirming his title in the Gohana estates which had previously been farmed to him by the Marāthās. He afterwards accompanied Lord Lake as far as the Beas in his pursuit of laswant Rao Holkar, and was sent as an envoy to Mahārājā Ranjit Singh, who was the son of his sister Rai Kaur, to dissuade him from assisting the fugitive prince. The mission was successful. Holkar was compelled to leave the Punjab, and Bhag Singh received as his reward the pargana of Bawana to the south-west of Paninat. The history of Ranjit Singh's interference in the Phulkian States has been given in the article on Patiala. From Ranjit Singh, Raja Bhag Singh received territory now included in Ludhiana District, comprising landala, Raikot, Bassian, and Jagraon. He died in 1819 after ruling thirty-six years, and was succeeded by his son Fatch Singh, who died in 1822, Troublous times followed, and Sangat Singh, who succeeded his father Fatch Singh, was obliged for a period to desert his capital. He died childless in 1824; and the question of the succession was finally settled in 1837, when Sarup Singh of Bazidpur, a second cousin of the deceased Rājā, was recognized as chief of all the territory that had been held by his great-grandfather, Gajpat Singh, through whom he derived his title. The territory to which he thus succeeded consisted of lind proper and nine other parganas, containing 322 villages, with a revenue of Rs. 2.36.000, while the acquisitions of the chiefs subsequent to Gainat Singh, comprising territory yielding Rs. 1,82,000, were resumed by the British Government.

Before the outbreak of the first Sikh War the Raja of Jind was in

close alliance with Patiāla against Rāiā Deoindar Singh of Nābha. His attitude to the British Government, however, was anything but friendly in 1845, until a timely fine recalled him to his allegiance. In the first Sikh War his conduct was exemplary, and he furnished both troops and supplies, receiving in reward a grant of land of the annual value of Rs. 2.000, while the fine of the previous year was remitted. Another grant, vielding Rs. 1.000. was shortly afterwards added in consideration of the abolition of the State transit dues. 1847 the Rājā received a sanad by which the British Government engaged never to demand from him or his successors tribute or revenue, or commutation in her of troops; the Raja on his part promised to aid the British with all his resources in case of war, to maintain the military roads, and to suppress satt, slave-dealing, and infanticide in his territories. When the second Sikh War broke out, Rājā Sarūp Singh offered to lead his troops in person to join the army at Lahore. In the crisis of 1857 he rendered most valuable assistance. He occupied the cantonment of Karnal with 800 men, and held the ferry over the Jumna at Baghpat, 20 miles north of Delhi, thus enabling the Meerut force to join Sir H. Barnard's column. He was present at the battle of Alipur. but at the end of June was compelled to pay a flying visit to Jind, as the rebels of Hānsi, Rohtak, and Hissar had induced some of his villages to revolt. He returned to Delhi on September o, and his contingent took a prominent part in the final assault on the city. He was further active throughout in sending supplies to the besieging force, and in keeping open the lines of communication and preserving order in the districts adjoining his State. After the fall of Delhi he sent 200 men with General van Cortlandt to Hansi, and 110 more with Colonel R. Lawrence to Thaijar, while 250 remained to garrison Rohtak. These splendid services received a fitting reward in the grant of the Dadri territory, covering nearly 600 square miles, forfeited for disloyalty by the Nawah of Bahadurgarh. This territory now yields a revenue of over a lakhs. He also received 13 villages, assessed at Rs. 1, 18,000, in the Kulārān pargana, close to Sangrūr, where the Rājā now has his capital, and a house at Delhi, valued at Rs. 6,000. His salute was raised to 11 guns; and, like the other Phulkjan chiefs. he received a sanad granting him the right of adoption in case of the failure of natural heirs, and legalizing the appointment of a successor by the two other Phulkian chiefs, in concert with the Political Agent. in the event of the Rājā dying without male issue and without having adopted a successor.

Rājā Sarūp Singh died in 1864. He was succeeded by his son, Raghubīr Singh, who was in every way worthy of his father. Immediately after his installation he was called upon to put down a serious insurrection in the newly-acquired territory of Dādri. The people

objected to the new revenue assessment, which had been based upon the British system, though the rates were much heavier than those prevailing in the neighbouring British Districts. Fifty villages broke out in open revolt, but Rājā Raghubīr Singh lost no time in hurrying to the scene of the disturbances with about 2.000 men of all arms. The village of Charki, where the ringleaders of the rebellion had entrenched themselves, was carried by assault, and within six weeks of the outbreak the country was again perfectly quiet. The Raia rendered prompt assistance to the British Government on the occasion of the Kūka outbreak in 1872; and when the second Afghān War broke out in 1878, the British Government accepted his offer of a contingent. which rendered useful service on the line of communications. As a reward, the honorary title of Rājā-i-Rājgān was conferred on the Rājā of Ind in perpetuity. An offer of assistance in the Egyptian campaign of 1882 was declined, with a suitable recognition of the Rājā's lovalty. Rājā Raghubīr Singh was indefatigable in his efforts to promote the prosperity, material and otherwise, of his people. He rebuilt the town of Sangrur, modelling it largely on Jaipur, and made many improve ments at Imd. Dadri, and Safidon. It is largely owing to his efforts that lind is to-day the first of the Phulkian States as regards artistic manufactures. He died in 1887, leaving a grandson, Ranbir Singh, to succeed him. Rāiā Ranbīr Singh was only eight years old at his accession, and a Council of Regency was appointed to carry on the administration until he attained majority. Full powers were given him in November, 1890, in a darbar held at Sangrür.

The southern portion of KURUKSHEIRA lies within the boundaries of the State, but the antiquities of the tract have never been properly explored. There are several old buildings and tanks, especially in and around SAFĪDON, for which an antiquity is claimed coeval with the events of the Mahābhārata.

The State contains 7 towns and 439 villages, and its population at the last three enumerations was: (1881) 249,862, (1891) 284,560, and (1901) 282,003. The decrease of 1 per cent. during the last decade was due to famine, which caused considerable emigration from Dādri. It is divided into two nizāmats or administrative districts. Sangrūr, which comprises the tahsīl of that name; and Jīnd, divided into the two tahsīls of Jīnd and Dādri. Their head-quarters are at Sangrūr and Jīnd respectively. The principal towns are Sangrūr, the modern capital, Jīnd, the former capital, Safīdon, Dādri, and Kallāna. The table on the next page shows the chief statistics of population in 1901.

Nearly three-fourths of the population are Hindus, only 10-6 per cent. being Sikhs, though Jind is one of the principal Sikh States in the Punjab. The remainder are Muhammadans (nearly 14 per

cent.), with a few Jains in the Dadri tahsil. The majority of the people speak Bangru, or its kindred dialects of Bagri and Abirwati, Punjabi being spoken only in the Sangrur tahsil.

| Tahail. | Arra n square miles. | Lowers | mber of | Population. | Population per square mile. | Percentage of variation in population between 1891 and 1901. | Number of persons able to read and write. |
|--------------------------|-------------------------|--------|------------------|-----------------------------|--------------------------------|--|---|
| Sangrür Jind Dādri | 242 464 562 | 3 | 95 163 181 | 64,681 124,954 92,368 | 267 269 164 | + 8.6 + 0.9 - 8.7 | 3,143 2,679 2,008 |
| State total | 1,268 | 7 | 439 | 282,003 | 222 | 0-9 | 7,829 |

NOTE.—The figures for the areas of takeits are taken from revenue returns. The total area of the State is that given in the Census Report.

More than 33 per cent. of the population are Jāts, the Sidhu tribe, to which the ruling family belongs, being strong in Sangrūr and the Sheorān in Dādri. Rājputs and Ahīrs also form important castes in Dādri. The latter are exclusively Hindus. About 66 per cent. of the population are dependent on agriculture. A branch of the Reformed Presbyterian Mission is established at Sangrūr; and 80 Christians, mostly members of the railway community at Itnd, were enumerated in the State in 1001.

Dadri taksti is almost devoid of irrigation, and its conditions therefore differ completely from those of Sangrur and Jind. Of these,

Agriculture. Sangrūr is now commanded by the Sirhind Canal, and its agricultural system has in consequence undergone great changes, being now superior to that of Jīnd. Formerly an arid tract with sparse cultivation, its virgin soil has been rendered cultivable by the canal. Jīnd is irrigated from the Hānsi branch of the older Western Jumna Canal, and its soil suffers both from excess of moisture and from exhaustion. Dādri is an arid, sandy tract, exposed to violent dust-storms in the hot season, and the sowing of either harvest depends entirely on the seasonal rains.

The State is mostly held by communities of small peasant proprietors, though large estates cover about 400 square miles. The following table gives the main statistics of cultivation in 1903-4, areas being in square miles:—

| 2 | ahad. | | | Total. | Cultivated. | Irrigated. | Cukivable |
|----------------------------|-------|---|------|-------------------|-------------------|----------------|----------------|
| Sangrür Jiad . Dädri | : | : | | 233 489 591 | 103 186 238 | 71 77 14 | 35 38 39 |
| | | T | otal | 1,337 | 827 | 162 | 712 |

In Sangrar and Jind the principal harvest is the spring crop, in which wheat and barley and gram, mixed with mustard, are grown, cotton and sugar-cane (and in Sangrar maize) being cultivated for the autumn harvest. In Dädri wheat is rarely sown except on lands irrigated from wells, and the main harvest is in the autumn, when millet is the staple crop. Pulses are sown with millet, which is also grown to some extent in Jind. Gram is the staple crop of the spring harvest,

In the Jind taksil rent is taken either in cash or by division of produce. Cash rents vary from Rs. 1-3-3 to Rs. 1-9-3 for unirrigated land, while for irrigated land Rs. 4-12-9 is paid on cotton and double that amount on sugar-cane. Where the less valuable irrigated crops are grown, rent is paid in kind, the landlord taking one-fourth of the produce. In the Dādri taksīl kind rents are very rare. From R. 0-12-9 to Rs. 3 per acre is paid for unirrigated land, and Rs. 4 to Rs. 5 for land watered from wells. In the Sangrūr taksīl rent is taken by division of crops. The rates are the same as in the Jind taksīl. The construction of railways has tended to equalize the prices of grain in different parts of the State.

Apart from the extension of canals, the State has since 1891 advanced Rs. 8,000 for the construction of wells for irrigation and drinking purposes, and nearly Rs. 16,000 more has been provided from village funds. There is a State bank in each taksil, by which advances are made at half the ordinary rates of interest. The cultivated area increased by 4.5 per cent. between 1881 and 1901, but there is little room for further extension.

Dādri, which lies close to Hariāna, is the main cattle-breeding tract, the animals resembling the famous Hariāna breed. Camels are also reared by the Rahbārīs in this tahstl, and used both for ploughing and carrying, as well as for riding. A good type of milch buffalo is found in Jind. The State maintains three Reserves in which grazing is allowed on payment.

The State owns 7.6 per cent. of the Sirhind Canal. Of the total area cultivated in 1903-4, 162 square miles, or more than 13 per cent., were classed as irrigated. Of this area, 37 square miles were irrigated from wells, 121 from canals, and 4 from streams. There are 2,292 masonry wells in use, besides 289 unbricked wells, lever wells, and water-lifts. Wells are virtually confined to Sangrür and Dādri, as the cost of making them is prohibitive in the Jind tahsil. The bucket and rope are commonly used, but a few Persian wheels are found in one part of the State. In 1903-4, 27 square miles were irrigated from the Sirhind Canal and 4 from the Ghaggar river and other streams in Sangrür, while in the Jind tahsil the Western Jumna Canal irrigated 60 square miles. The Hänsi and Būtāna, branches of the Western Jumna Canal

were managed by the British Government prior to 1888. In that year, however, an agreement was made by which the State took over distributaries irrigating 60,000 acres on payment of Rs. 1,20,000, less the cost of maintenance, &c., giving a net amount of about Rs. 1,05,500 a year payable to Government. The State is also allowed to irrigate 10,000 acres free of water rate, if there is a sufficient supply of water in the canal. The Bhiwani branch, still under British management, irrigates about 2,300 acres in this tahsil, for which the State pays the water rates fixed for British villages, plus 50 per cent. In lieu of owner's rate.

The only forests are the three Reserves already mentioned. These are called *birs* and have an area of 2,623 acres. While yielding an income of over Rs. 2,000 in normal years, they also form valuable fodder reserves for the cattle in time of famine.

The State contains no mines or minerals, with the exception of stone and kankar quarries and saltpetre, the last of which yields a revenue of nearly Rs 15,000. Stone is quarried in the Dādri tahsīl, but most of it is used locally.

The only industries of any importance are the manufacture of gold and silver ornaments, leathern and wood work, cotton cloth, and rude

Trade and communications. The towns of Sangrūr and Dādri are noted for their leathern goods, shoes, harness, and well-gear; and in the former good furniture of English pattern is made. In the Sangrūr tahsil embroidery is done by women or local sale and some of it is exported. There is some turnery at Dādri. The only factory is a steam cotton-ginning and pressing factory at Jind town, which in 190,5-4 gave employment to 120 persons.

Large quantities of grain are exported through Sangrür, Jind, and Dādri. Other exports are cotton, ghi, and oilseeds, while the chief imports are refined sugar and cotton cloth.

The Ludhiana Dhun-Jākhal Railway was opened in 1901, the State finding four fifths of the capital for its construction. It connects Sangrur, the capital, with Dhuri Junction on the Rājpura-Bhatinda branch of the North-Western Railway and with Jākhal Junction on the Southern Punjab Railway, and is managed by the North-Western Railway in return for 55 per cent, of the gross earnings. The Southern Punjab Railway has three stations in the Jind Iahsil, and the Rājputāna-Mālwā Railway two in Dādri. Sangrūr is also connected by metalled roads with Dhūri and Patiāla, and with Jīnd by a partially metalled road. The State contains 42 miles of metalled roads and 191 miles of unmetalled roads. The postal and telegraphic arrangements are similar to those in Patiala.

In common with the rest of the Punjab, the State suffered from the

famines of 1782, 1802, 1812, 1824, and 1822. That of 1860-1 also affected the State, especially the Dadri tahsil, and half a year's revenue was remitted, advances for the purchase of cattle and seed being also given. In 1860-70 a folder famine caused great losses of cattle, and a fifth of the revenue was remitted in the Ind tahsil, advances being also made in Dadri. In 1877-8 the scarcity was more severe and was met by loans from the State banks. In 1882-4 a fodder famine again caused great loss of cattle, and revenue was largely suspended. In 1896 famine reappeared, and Rs. 27.500 was allotted for relief works. 7.000 maunds of grain were distributed as advances for seed, and Rs. 3,000 spent in charitable relief; and though the scarcity was intensified in 1807, the losses were In 1800 the crops failed again before the people had had time to recover from the effects of the preceding famine. Two months after the opening of relief works in October, 1800, it was resolved to concentrate the famine-stricken people on the Ludhiana-Dhuri-Iakhal Railway. The highest daily average (1,260) was reached in March, 1000. Works were not closed until December, 1000, and the total expenditure on them exceeded Rs. 40,000. Poorhouses were also opened and relief given privately at a cost of nearly Rs. 23,000, excluding the expenditure on additional dispensaries and the relief of immigrants. On the conclusion of the famine, Rs. 1,58,000 was advanced to the people for the purchase of cattle and seed, bringing up the total expenditure incurred by the State to Rs. 2.27.000.

The Agent to the Lieutenant-Governor of the Puniab for Ind is the Political Agent for the Phülkiän States and Bahāwalpur, who resides at Patiāla. The administration of the State is divided Administration. between four departments. Foreign affairs and education are controlled by the foreign minister. The Diwan controls finance, excise, and revenue; the Bakhshi Khana under the commander-in-chief is responsible for the army and the police, and the Adalati or minister of justice for civil and criminal justice. The heads of these departments sitting together form a State Council known as the Sadr Ala, to which each of the ministers individually is subordinate. The Council again is controlled by the Rājā. The accountant-general's office was established in 1899. For administrative purposes the State is divided into two nizamats and three tahsils. Each tahsil is further subdivided into police circles, the Sangrur tahsil containing three, Jind and Dadri two each. Each nizamat is administered by a nāzim, under whom is a tahsildar in each tahsil.

In each nizāmat the nāzim and tahsīldārs exercise judicial powers, and in 1899 a subdivisional magistrate was appointed in the Dādri tahsīl. The nāzīm corresponds roughly to a District Magistrate, and from his decisions appeals lie to the Sadr Adālat, which is presided

over by the Adālati. Further appeals lie to the Sadr Alā, which is subordinate to the Ijlās-i-Khās, or court of the Rājā. All these courts exercise both civil and criminal jurisdiction. The Indian Penal Code and Criminal Procedure Code are in force in the State, with certain modifications.

The principal feudatory is the Sardār of Badrukhān, the representative of the junior branch of the ruling family. The jāgīr is worth Rs. 8,843 per annum, and is subject to the usual incidents of lapse and commutation. The Rājā of Nābha is a member of this family.

In the time of Raja Gaipat Singh the State consisted only of the four pargunas of Ind. Safidon, Sangrur, and Bālānwāli, with a revenue of about a lakhs. Before the settlements made by Rājā Sarūn Singh. a fluctuating system of assessment was in vogue, including batai, kankit, and cash rates fixed on the nature of crops. The settlements were made in different years for each takvil. Between 1857 and 1866 a summary settlement of the Sangrur and lind tahsils was conducted, resulting in a total demand of 3.2 lakhs. Shortly after this a regular settlement of the whole State was made, which produced a fixed revenue of 5.0 lakhs. In both of these settlements the batai system was partly continued. Two regular settlements followed, when cash rates were introduced throughout. The assessment of the fourth settlement was 6.2 lakhs. Revenue rates on unirrigated land vary from a minimum of R. o 4-1 in Dadri to a maximum of Rs. 1-12-10 in Sangrur, and on irrigated land from a minimum of R. o-6-1 in Dādri to a maximum of Rs. 2-5-9 in Sangrür,

The collections of land revenue alone and of total revenue (including cesses) are shown below, in thousands of rupees:-

| i. | | | |
|--------------------------------|-----|-----|--|
| | | . ! | 1880-1. 1890-1. 1900-1. 1903-4. |
| I and revenue Total revenue | . : | - 1 | 7,14 7,15 8,03 7,54 10,71 11,67 14,93 16,04 |
| T | | | |

Apart from land revenue, the principal sources of revenue, with the amounts derived from each in 1903-4, are as follows: canals (2.5 lakhs), sailways (1.2 lakhs), and stamps (0.0 lakh). The principal heads of expenditure are army (2.7 lakhs), canals (1.2 lakhs), public works (0.9 lakh), police (0.5 lakh), and miscellaneous (8.8 lakhs).

The income derived from excise in 1903-4 was Rs. 29,000. Liquor is distilled on premises which belong to the State, under the supervision of State officials, and still-head duties are levied of Rs. 2-8-0 per proof gallon and Rs. 2 per gallon of 25° under proof. The arrangement regarding the import of Mālwā opium is similar to that which obtains in the case of Patiāla, but the quantity allowed to Jind at the lower rate never exceeds 19 chests. The duty paid on this opium is refunded

to the State, with the object of securing the co-operation of the officials in the suppression of smuggling. The import of opium from Dādri into British territory is prohibited. The contracts for the retail sale of opium, drugs, and liquor are auctioned, and wholesale licences are granted on payment of a fixed fee. The excise arrangements are under the control of a Superintendent, who is subordinate to the Diwān.

The mint is controlled by the State treasurer, but, as in the case of Patiāla, coins are struck only on special occasions, and these can hardly be said to be current coinage. The Jind rupee bears an inscription similar to that on the Patiāla rupee, to the effect that it is struck under the authority of Ahmad Shāh Durrāni. (See article on Patiāla.) The value of the coin is about 12 annas. Gold coins are also struck.

The towns of SANGRÜR, JÍND, SAFÍDON, and DADRI have been constituted municipalities.

The expenditure on public works in 1903-4 was Rs. 90,854; and the principal buildings erected by the department since 1900 are the Ranbīr College, the Ranbīr Ganj, the Record Office, and the Female Hospital, all at Sangrūr.

The State army consists of a battalion of Imperial Service infantry, 600 strong, with all necessary transport; and a local force of 220 cavalry, 560 infantry, 80 artillery, and 16 serviceable guns.

The police force had in 1903—4 a total strength of 405 of all ranks, and the village watchmen numbered 523. The police force is controlled by an Inspector-General, under whom there is a Superintendent for each of the three talistis, and a deputy-inspector for each of the seven police stations. The principal jail is at Sangrar. It has accommodation for 320 prisoners, and is managed by a dāroga under the supervision of the Adālatī. The chief jail industries are printing, weaving, bookbinding, and the making of darīs (cotton carpets), paper, webbing, and rope.

In 1901 the proportion of literate persons was 2-8 per cent. (5 males and 0.2 females). The number of pupils under instruction was 602 in 1890-1, 791 in 1900-1, and 730 in 1903-4. In the last year the State had 4 secondary and 7 primary and special (public) schools, and 15 elementary (private) schools, with 3 girls in the private schools. The eleven institutions classed as public were all managed by the Educational department of the State. The existing system dates from 1889, when the old State schools at Sangrür, Jind, Dädri, and Safidon were remodelled, so as to bring them into line with the regulations of the Punjab Educational department. In 1894 the school at Sangrür was raised to the status of a high school, and in 1902 the Diamond Jubilee College was completed at that town. The expenditure of

the State on education was Rs. 9,300 in 1892-3 and Rs. 10,400 in

1903-4.

The State contains 3 hospitals and 6 dispensaries, with accommodation for 64 in-patients. In 1903-4 the number of cases treated was 29,129, of whom 166 were in-patients, and 867 operations were performed. The expenditure was Rs. 17,815. The medical department is in charge of the State Medical officer.

Vaccination, which is compulsory throughout the State, is carried out by a staff of four vaccinators under an inspector. In 1903-4 the number of vaccinations performed was 4,752, representing 16-9 per 1.000 of the population.

Revenue survey maps were prepared for each tahsil at the first settlement. They were revised during the second and third settlements, and during the fourth settlement a fresh survey of Jind and Sangrür was made and new maps were prepared. For the Jind tahsil, a map on the 4-inch scale was made. The first trigonometrical survey was made between 1847 and 1849, and maps were published on the x-inch and x-inch scales. A 4-inch map of the Cis-Sutlej States was published in 1863, and a revised edition of it in 1897. The x-inch maps prepared in 1847-9 were revised in 1886—92.

[H. A. Rose, Phulkian States Gazetteer (in the press); L. H. Griffin, The Rājās of the Punjab (second edition, 1873).]

Jind Nizamat.—South-eastern nizāmat or administrative district of Jind State, Punjab, lying between 28° 24' and 29° 28' N. and 75° 55' and 76° 48' E., with an area of 1,080 square miles. It comprises the two tahstis of Jind and Dādri. The population in 1901 was 217,322, compared with 225,039 in 1891. The nizāmat contains five towns, Jind, the head-quarters, Safidon, Dādri, Kaliāna, and Braund; and 344 villages. The land revenue and cesses in 1903-4 amounted to 4.7 lakhs.

Jind Tahan.—Northern tahsil of the Jind State and nisāmat, Punjab, lying between 29° 2' and 29° 28' N. and 76° 15' and 76° 48' E., with an area of 489 square miles. It forms a compact triangle, almost entirely surrounded by the British Districts of Karnāl, Delhi, Rohtak, and Hissār, while on the north it is bounded by the Narwāna tahsīl of Patiāla. It lies entirely in the natural tract known as the Bāngar, and includes a part of the Nardak or Kurukshetra, the sacred land of the Hindus. The population in 1901 was 124,954, compared with 123,898 in 1891. The tahsīl contains two towns, Jīnd (population, 8,047), the head-quarters, and Safīdon (4,832); and 163 villages. The land revenue and cesses in 1903-4 amounted to 2·3 lakhs.

Jind Town.—Head-quarters of the Jind nizāmat and tahsil, Jind State, Punjab, situated in 29° 20' N. and 76° 19' E., on the Southern

JIR1 177

Punish Railway, 60 miles south-east of Sangrur, the modern capital. and as miles north-west of Rohtak. Population (1901), 8.047. It was formerly the capital of the State to which it gave its name and the Raiss of Ind are still installed here. It lies in the holy tract of Kurukshetra; and tradition ascribes its foundation to the Pandavas, who built a temple here to Jainti Devi, the 'goddess of victory.' round which sprang up the town Jaintapuri, since corrupted into Jind. Of little importance in the Muhammadan period, it was seized by Gainat Singh, the first Raja of Jind, in 1755. Rahim Dad Khan was sent by the Delhi government in 1775 to recover it, but was defeated and killed. His tomb is still to be seen at the Safidon Gate, and trophies of the victory are preserved in the town. It contains many ancient temples, and several places of pilgrimage. The fort of Fatehgarh, part of which is now used as a jail, was built by Raja Gajpat Singh. The municipality has an income of Rs. 7,210. chiefly from octroi; and there is a considerable local trade.

Jinjirām.—River of Assam, which rises in the Urpad bil, Goālpāra District, and flows through the southern portion of that District till it falls into the Brahmaputra, south of Mānikarchar, after a course of 120 miles. The most important places on its banks are Lakhipur, South Sālmāra, and Singimāri. Above Sālmāra the country is under water during the rains, and boats of 4 tons burden can proceed as far as Lakhipur. In the dry season they cannot get above Singimāri. The river serves as a trade route for the southern portion of Goālpāra and the Gāro Hills.

Jintūr.—Northern tāluk of Parbhani District, Hyderābād State, with an area of 952 square miles. Including jāgīrs, the population in 1901 was 87,797, compared with 123,546 in 1891, the decrease being due to the famine of 1900. The tāluk contains 297 villages, of which 37 are jāgīr, and Jintūr (population, 3,688) is the head-quarters. The land revenue in 1901 was 3.2 lakhs. The tāluk lies between the rivers Pūrna (north) and Dudna (south). The soils are mainly alluvial and regar.

Jiral Kamsoli.—Petty State in Rewa Kantha, Bombay.

Jirang.—Petty State in the Khāsi Hills, Eastern Bengal and Assam. The population in 1901 was 723, and the gross revenue in 1903-4 Rs. 2,245. The principal products are rice, millet, ginger, caoutchouc, and cotton.

Jiri.—River of Assam, which rises on the southern slopes of the Barail, and, after a southerly course of 75 miles, falls into the Barak or Surma. For nearly the whole of its length it forms the boundary between Cāchār District and the State of Manipur, and it is crossed at Jirighāt by a ferry, which is maintained for the use of travellers along the Silchar-Manipur road. The greater part of its course lies through

178 JIRI

hilly country, and there is very little cultivated land in the vicinity. The only traffic brought down by the river consists of forest produce and tea from a garden situated at Jirighāt, about 5 miles above its confluence with the Barāk.

Jobat.—A guaranteed chiefship in Central India, under the Bhopāwar Agency, lying between 22° 21' and 22° 30' N. and 74° 28' and 74° 50' E., with an area of about 140 square miles. It is bounded on the north by the Jhābua State; on the south and west by Alī-Rājpur; and on the east by Gwalior. Jobat lies entirely in the hilly tract of the Vindhyas, and is intersected by a succession of short ranges and narrow valleys covered with thick jungle. The geological formations met with are of unusual interest. In the immediate neighbourhood of the town of Jobat, and covering a considerable area round it, is an outcrop of a peculiar jaspideous, ferruginous rock, while the greater part of the State is occupied by gneissose and schistose rocks. Along the northern border the Lametas are represented by the Nimār sandstone and Bāgh limestones, overlaid by trap. The annual rainfall averages about 30 inches.

There is some uncertainty as to the founder of this State; but the best-supported account relates that the territory passed to Kesar Deo, great-grandson of Anand Deo, the founder of Alī-Rājpur, in the fifteenth century. On the establishment of British supremacy, Rānā Sabal Singh was in pessession, and was succeeded by Rānā Ranjīt Singh, who died in 1874. Ranjīt Singh in 1864 agreed to cede all land which might at any time be required for railways through his State. He was followed by Sarūp Singh, who died in 1897, and was succeeded by the present chief, Indrajīt Singh, who is still a minor, and is being educated at the Daly College at Indore. The title of Rānā is borne by the rulers of Johat.

Population has been: (1881) 9,387, (1891) 15,047, and (1901) 9,443, giving a density of 67 persons per square mile. The decrease of 37 per cent. during the last decade is due mainly to the famine of 1899-1900. Animists (chiefly Bhils and Bhilalas) number 8,131, or 86 per cent. of the total.

The general fertility of the soil is low, and the Bhils, who form the greater part of the population, are indifferent agriculturists. The total area is thus distributed: cultivated, 32 square miles, of which only 62 acres can be irrigated; cultivable but not under cultivation, 30 square miles; waste and forest land, 78 square miles. Of the cropped area, urd occupies 17 square miles, or 53 per cent.; maize, 10 square miles; and joudr, 7 square miles.

The forest area, which covers almost the whole of the uncultivable portion of the State, has since 1902 been in charge of the Agency Forest officer. Ashestos has been found in some quantity, but the

quality is poor, and an attempt to work it proved a failure. Trade generally has increased, especially the export of grain, which is carried to Dohad on the Godhra-Ujjain section of the Bombay, Baroda, and Central India Railway by a fair-weather road, 40 miles in length. A British post office has been opened at Ghora village; the nearest telegraph office is at Bāgh in the Amjhera district of Gwalior, 15 miles distant.

The State is divided into five thānar—Jobat, Guda, Hirāpur, Thaplī, and Juārī—under two thānadārs, who are the revenue collectors. Owing to the chief's minority, the State is at present administered by the Political Agent, through a Superintendent, all matters of importance being dealt with by him. The total revenue is Rs. 21,000, of which Rs. 8,300 is derived from land, Rs. 2,700 from forests, and Rs. 4,000 from excise. The general administration, including the chief's establishment, costs Rs. 15,000 a year. The incidence of the land revenue demand is 9 annas per acre of cultivated land and 2 annas per acre of total area. The jail is at Jobat, and a vernacular school is maintained at Ghora. In 1901 only one per cent. of the population (almost all males) could read and write.

Jobat village, containing the residence of the chief, is situated in 22° 27' N. and 74° 37' E. Population (1901), 208. It is reached from the Dohad or Meghnagar stations on the Ratlām-Godhra section of the Bombay, Baroda, and Central India Railway, the stations being 40 miles distant by fair-weather road from the village. The administrative head-quarters, however, are at Ghora, 2 miles south of Jobat. Population (1901), 1,154. The State is often called Ghora-Jobat by natives, on account of its two capitals.

Jodhpur State (also called Marwar). - The largest State in Rājputāna, having an area of 34.063 square miles, or more than onefourth of the total area of the Agency. It lies between 24° 37' and 27° 42′ N. and 70° 6′ and 75° 22′ E. It is bounded on the north by Bikaner; on the north-west by Jaisalmer; on the west by Sind; on the south-west by the Rann of Cutch; on the south by Palanpur and Sirohi; on the south-east by Udaipur; on the east by Aimer-Merwara and Kishangarh; and on the north-east by Jaipur. The country, as its name Marwar (= 'region of death') implies. Physical . is sterile, sandy, and inhospitable. There are some aspects. comparatively fertile lands in the north-east, east, and south-east in the neighbourhood of the Aravalli Hills; but, generally speaking, it is a dreary waste covered with sandhills, rising sometimes to a height of 300 or 400 feet, and the desolation becomes more absolute and marked as one proceeds westwards, The northern and north-western portion is a mere desert, known as the that, in which, it has been said, there are more spears than spear-grass heads,

and blades of steel grow better than blades of corn. The country here resembles an undulating sea of sand; an occasional oasis is met with. but water is exceedingly scarce and often 200 to 300 feet below the surface. The ARAVALLI HILLS form the entire eastern boundary of the State, the highest neak within Todhour limits being in the south-east (3.607 feet above the sea). Several small offshoots of the Aravallis lie in the south, notably the Sunda hills (Jaswantpura), where a height of 3.252 feet is attained, the Chappan-kā-pahār near Siwāna (3.100 feet), and the Roja hills at Jalor (2,408 feet). Scattered over the State are numerous isolated hills, varying in height from 1,000 to 2,000 feet. The only important river is the LUNI. Its chief tributaries are the Lilri, the Raipur Lüni, the Guhiya, the Bandi, the Sukri, and the lawai on the left bank, and the loiri on the right. The principal lake is the famous salt lake at SAMBHAR. Two other depressions of the same kind exist at Didwana and Pachbhadra. There are a few this or marshes, notably one near Bhatki in the south-west, which covers an area of 40 or 50 square miles in the rainy season, and the hed of which, when dry, yields good crops of wheat and gram.

A large part of the State is covered by sand-dunes of the transverse type, that is, with their longer axes at right angles to the prevailing wind. Isolated hills of solid rock are scattered over the plain. oldest rocks found are schists of the Arāvalh system, and upon them rests unconformably a great series of ancient subaerial rhyolites with subordinate bands of conglomerate, the Mallani series. These cover a large area in the west and extend to the capital. Coarse-grained granites of two varieties, one containing no mica and the other both hornblende and mica, are associated with the rhyolites. Near the capital, sandstones of Vindhyan age rest unconformably upon the Some beds of conglomerate, showing traces of glacial action, have been found at Pokaran and are referred to the Talcher period. Sandstones and conglomerates with traces of fossil leaves occur at Barmer, and are probably of Jurassic age. The famous marble quarries of Makrana are situated in Jodhpur territory, the marble being found among the crystalline Aravalli schists,

The castern and some of the southern districts are well wooded with natural forests, the most important indigenous timber-tree being the babul (Acacia arabica), the leaves and pods of which are used as fodder in the hot season, while the bark is a valuable tanning and dyeing agent. Among other trees may be mentioned the mahuā (Bassia latifolia), valuable for its timber and flowers; the anwal (Cassia auriculata), the bark of which is largely used in tanning; the dhāk or palās (Butea frondosa), the dhao (Anogeissus pendula), the gūlar (Ficus glomerata), the siris (Albizzia Lebbek), and the khair (Acacia Catechu). Throughout the plains the kheira (Prosopis spicigera), the robtra (Tecoma

undulata), and the nim (Melia Azadirachta) are common, and the tamarind and the bar (Ficus bengalensis) are fairly so. The pipal (Ficus religiosa), a sacred tree, is found in almost every village. The principal fruit trees are the pomegranate (Punica Granatum), the Jodhpur variety of which is celebrated for its delicate flavour, and the nimbu or limetree. In the desert the chief trees are two species of the ber (Zizyphus Jujuba and Z. nummularia), which flourish even in years of scanty rainfall, and furnish the main fodder and fruit-supply of this part of the country; and the khejra, which is not less important, as its leaves and shoots provide the inhabitants with vegetables (besides being eaten by camels, goats, and cattle), its pods are consumed as fruits, its wood is used for roofs, carts, and agricultural implements or as fuel, and its fresh bark is, in years of famine, stripped off and ground with grain to give the meagre meal a more substantial bulk.

The fauna is varied. Lions are now extinct, the last four having been shot near Jaswantpura about 1872, and the wild ass (Equus hemionus) is soldom, if ever, seen. Tiger, sambar (Cervus unicolor), and black bears are found in the Aravallis and the Jaswantpura and lalor hills, but in yearly decreasing numbers. Wild hog are fairly numerous in the same localities, but are scarcer than they used to be in the low hills adjacent to the capital. Leopards and hyenas are generally plentiful, and nilgai (Boselaphus tragocamelus) are found in some of the northern and castern districts. Indian gazelle abound in the plains, as also do antelope, save in the actual desert; but the chital (Cerous axis) is seen only on the slopes of the Aravallis in the south-cast. Wolves are numerous in the west, and wild dogs are occasionally met with in the forests. In addition to the usual small game, there are several species of sand-grouse (including the imperial), and two of bustard, namely, the great Indian (Eupodotis edwardsi) and the houbara (Houbara macqueeni).

The climate is dry, even in the monsoon period, and characterized by extreme variations of temperature during the cold season. The hot months are fairly healthy, but the heat is intense; scorching winds prevail with great violence in April, May, and June, and sand-storms are of frequent occurrence. The climate is often pleasant towards the end of July and in August and September; but a second hot season is not uncommon in October and the first half of November. In the cold season (November 15 to about March 15) the mean daily range is sometimes as much as 30°, and malarial and other fevers prevail. An observatory was opened at Jodhpur city in October, 1896, and the average daily mean temperature for the nine years ending 1905 has been nearly 81° (varying from 62-7° in January to 94-2° in May). The mean daily range is about 25° (16-6° in August and 30-5° in November). The highest temperature recorded since the observatory

and barren a victory that he was forced to declare that he had 'nearly lost the empire of India for a handful of baira'—an allusion to the poverty of the soil of Mārwār as unfitted to produce richer grain. Subsequently Akbar invaded the country and, after an obstinate and sanguinary defence, captured the forts of Merta and Nagaur. appease him. Maldeo sent his second son to him with gifts; but the emperor was so dissatisfied with the disdainful bearing of the desert chief, who refused personally to attend his court, that he besiezed Iodhpur, forced the Rao to pay homage in the person of his eldest son. Udai Singh, and even presented to the Bikaner chief, a scion of the Jodhpur house, a formal grant for the State of Jodhpur together with the leadership of the clan. Ruo Maldco died shortly afterwards; and then commenced a civil strife between his two sons. Udai Singh and Chandra Sen, ending in favour of the latter, who, though the younger, was the choice of both his father and the nobles. He, however, ruled for only a few years, and was succeeded (about 1581) by his brother, who, by giving his sister, Iodh Bai, in marriage to Akbar, and his daughter Man Bai to the prince Salim (lahāngir), recovered all the former possessions of his house, except Aimer, and obtained several rich districts in Mālwā and the title of Rājā. The next two chiefs, Sür Singh (1505-1620) and Gai Singh (1620-38), served with great distinction in several battles in Guiarat and the Deccan. The brilliant exploits of the former gained for him the title of Sawai Rājā, while the latter, besides being viceroy of the Deccan, was styled Dalbhanian (or 'destroyer of the army') and Dalthambhan (or 'leader of the host').

Jaswant Singh (1638-78) was the first ruler of Marwar to receive the title of Mahārājā. His career was a remarkable one. In 1658 he was appointed viceroy of Mālwā, and received the command of the army dispatched against Aurangzeb and Murād, who were then in rebellion against their father. Being over-confident of victory and anxious to triumph over two princes in one day, he delayed his attack until they had joined forces, and in the end suffered a severe defeat at Fatehābād near Ujjain. Aurangzel subsequently sent assurances of pardon to Jaswant Singh, and summoned him to join the army then being collected against Shujā. 'The summons was obeyed, but as soon as the battle commenced he wheeled about, cut to pieces Aurangzeh's rearguard, plundered his camp, and marched with the spoils to Jodhpur. Later on he served as viceroy of Gujarāt and the Deccan, and finally in 1678, in order to get rid of him, Aurangzeb appointed him to lead an army against the Afghans. He died in the same year at Jamrud, and was succeeded by his posthumous son, Ajīt Singh, during whose infancy Aurangzeb invaded Marwar, sacked Jodhpur and all the large towns, destroyed the temples and commanded the conversion of the Rathor race to Islam. This cruel policy cemented into one bond of union all who cherished either patriotism or religion, and in the wars that ensued the emperor gained little of either honour or advantage. On Aurangzeb's death in 1707 AjIt Singh proceeded to Jodhpur, slaughtered or dispersed the imperial garrison, and recovered his capital. In the following year he became a party to the triple alliance with Udaipur and Jaipur to throw off the Muhammadan yoke. One of the conditions of this alliance was that the chiefs of Jodhpur and Jaipur should regain the privilege of marrying with the Udaipur family, which they had forfeited by contracting matrimonial alliances with the Mughal emperors, on the understanding that the offspring of Udaipur princesses should succeed to the State in preference to all other children. The allies fought a successful battle at Sāmbhar in 1709, and a year or so later forced Bahādur Shāh to make peace.

When the Saivid brothers-'the Warwicks of the East'-were in power, they called upon Aitt Singh to mark his subservience to the Delhi court in the customary manner by sending a contingent headed by his heir to serve. This he declined to do, so his capital was invested, his eldest son (Abhai Singh) was taken to Delhi as a hostage, and he was compelled, among other things, to give his daughter in marriage to Farrukhsivar and himself repair to the imperial court. For a few years Aiit Singh was mixed up in all the intrigues that occurred: but on the murder of Farrukhsiyar in 1710, he refused his sanction to the nefarious schemes of the Saivids, and in 1720 returned to his capital, leaving Abhai Singh behind. In 1721 Aift Singh seized Aimer. where he coined money in his own name, but had to surrender the place to Muhammad Shāh two years later. In the meantime, Abhai Singh had been persuaded that the only mode of arresting the ruin of the lodhpur State and of hastening his own elevation was the murder of his father; and in 1724 he induced his brother. Bakht Singh, to commit this foul crime. Abhai Singh ruled for about twenty-six years, and in 1731 rendered great service to Muhammad Shah by capturing Ahmadabad and suppressing the rebellion of Sarbuland Khān.

On his death in 1750 his son Rām Singh succeeded, but was soon ousted by his uncle, Bakht Singh, the parricide, and forced to flee to Ujjain, where he found Jai Appa Sindhia and concerted measures for the invasion of his country. In the meantime Bakht Singh had met his death, by means, it is said, of a poisoned robe given him by his aunt or niece, the wife of the Jaipur chief; and his son, Bijai Singh, was ruling at Jodhpur. The Marāthās assisted Rām Singh to gain a victory over his cousin at Merta about 1756; but they shortly afterwards abandoned him, and wrested from Bijai Singh the fort and district of Ajmer and the promise of a fixed triennial tribute. After this, Mārwār enjoyed several years of peace, until the rapid strides made by the Marāthās towards universal rapine, if not conquest, compelled the principal Rājput States

(Mewār, Jodhpur, and Jaipur) once more to form a union for the defence of their political existence. In the battle of Tonga (1787) Sindhia was routed, and compelled to abandon not only the field but all his conquests (including Ajmer) for a time. He soon returned, however; and in 1790 his army under De Boigne defeated the Rājputs in the murderous engagements at Pātan (in June) and Merta (in September). In the result, he imposed on Jodhpur a fine of 60 lakhs, and recovered Ajmer, which was thus lost for ever to the Rāthors. Bijai Singh died about 1793, and was succeeded by his grandson, Bhīm Singh, who ruled for ten years.

At the commencement of the Marāthā War in 1803 Mān Singh was chief of Jodhour, and negotiated first with the British and subsequently with Holkar. Troubles then came quickly upon Jodhpur, owing to internal disputes regarding the succession of Dhonkal Singh, a supposed posthumous son of Bhim Singh, and a disastrous war with Jajour for the hand of the daughter of the Mahārānā of Udaipur. The freebooter Amir Khān espoused first the cause of laipur and then that of Jodhpur. terrified Man Singh into abdication and pretended insanity, assumed the management of the State itself for two years, and ended by plundering the treasury and leaving the country with its resources completely exhausted. On Amir Khān's withdrawal in 1817, Chhatar Singh, the only son of Man Singh, assumed the regency, and with him the British Government commenced negotiations at the outbreak of the Pindari A treaty was concluded in January, 1818, by which the State was taken under protection and agreed (1) to pay an annual tribute of ks. 1,08,000 (reduced in 1847 to Rs. 98,000, in consideration of the cession of the fort and district of Umarkot), and (2) to furnish, when required, a contingent of 1,500 horse (an obligation converted in 1835) to an annual payment of Rs. 1, 15,000 -see the article on ERINPURA). Chhatar Singh died shortly after the conclusion of the treaty, whereupon his father. Man Singh, threw off the mask of insanity and resumed the administration. Within a few months he put to death or imprisoned most of the nobles who, during his assumed imbecility, had shown any unfriendly feeling towards him; and many of the others fled from his tyranny and appealed for aid to the British, with the result that in 1824 the Maharājā was obliged to restore the confiscated estates of In 1827 the nobles again rebelled, and putting the presome of them. tender, Dhonkal Singh, at their head, prepared to invade Jodhpur from laipur territory. Lastly, in 1840, the misgovernment of Man Singh and the consequent disaffection and insurrection in the State reached such a pitch that the British Government was compelled to interfere. A force was marched to Jodhpur, of which it held military occupation for five months, when Man Singh executed an engagement to ensure future good government. He died in 1843, leaving no son; and by the choice

of his widows and the nobles and officials of the State, confirmed by Government, Takht Singh, chief of Ahmadnagar, became Mahārājā of Iodhpur, the claims revived by Dhonkal Singh being set aside. Mahārājā did good service during the Mutiny, but the affairs of Mārwār fell into the utmost confusion owing to his misrule, and the Government of India had to interfere in 1868. In 1870 he leased to Government the Iodhpur share of the Sambhar Lake, together with the salt marts of Nāwa and Gūdha. Takht Singh died in 1871, when he was succeeded by his eldest son, Jaswant Singh. The new administration was distinguished by the viyour and success with which dacoities and crimes of violence (formerly very numerous) were suppressed, by pushing on the construction of railways and irrigation works, improving the customs tariff, introducing a regular revenue settlement, &c. In fact, in every department a wise and progressive policy was pursued. No chief could have better upheld the character of his house for unswerving loyalty to Government, and the two fine regiments of Imperial Service cavalry raised by him are among the evidences of this honourable feeling. He was created a G.C.S.I. in 1875, and subsequently his salute (ordinarily 17 guns) was raised first to 10, and next to 21 guns. He died in 1805. leaving a strong and sound administration to his only son, Sardar Singh, who was born in 1880, and is the present Mahārājā. He was invested with powers in 1808, the administration during his minority having been carried on by his uncle, Mahārāj Prātap Singh (now the Mahārājā of Idar), assisted by a Council. The chief events of His Highness's rule have been; the employment of a regiment of his Imperial Service Lancers on the north-west frontier in 1807-8 and in China in 1900-1; the extension of the railway to the Sind border and thence to Hyderābād: the great samine of 1809-1900; the conversion of the local into British currency in 1000; and his visit to Europe in 1001. Mahārājā Sardar Singh was a member of the Imperial Cadet Corps from January, 1902, to August, 1907.

The State is rich in antiquarian remains; the most interesting are described in the articles on Bāli, Bhīnmāl, Dīdwāna, Jālor, Mandor, Nādol, Nāgaur, Pāli, Rānapur, and Sādri.

Excluding the 21 villages situated in the British District of Merwära, which, under an arrangement made in 1885, are administered by the Government of India, but over which the Jodhpur Darbär still retains other rights, there were, in 1901, 4,057 towns and villages in the State, the town of Sāmbhar being under the joint jurisdiction of the Jodhpur and Jaipur Darbärs. The population at each of the three enumerations was: (1881) 1,757,681, (1891) 2,528,178, and (1901) 1,935,565. The territory in 1901 was divided into 24 districts or hukūmats (since reduced to 23), and contained one city, Jodhpur (population, 79,109), the capital of the State and a munici-

VOL. XIV.

pality, and 26 towns. The principal towns are Phalodi (population, 13,924) and Nāgaur (13,377) in the north, Pāli (12,673) and Sojat (11,107) in the east, and Kuchāwan (10,749) in the north-east. The following table gives the chief statistics of population in 1901:—

| Huhûmat. | Area in square miles | Towns | Villages. | Population. | Percentage of variation in population between 1691 and 1991. | Number of persons able to read and write. |
|---------------------|-------------------------|-------|--------------|----------------------------|--|---|
| Jodhpur | 2,896 | 7 | 370 | 235,461 | _ 28-1 | 17,372 |
| Dan 1 | 837 | 1 | 160 | 96,194 | - 22.8 | 3,777 |
| Desuri { Godwâr } ; | 706 | | 160 | 67,764 | j — 22.0 | 3,686 |
| Bilara . | 792 | 3 | 88 } | 57.794 | - 32 | 4,196 |
| Didwana | 1,136 | F 1 | 113 | 44,642 | - 17.8 | 2,285 |
| Jastaran | 959 | 2 | 116 1 | 67,733 | - 22-7 | 2,683 |
| Talor | 1,552 | 1 | 252 . | 140,880 | - 17-3 | 9,887 |
| Jaswantpura | 1,360 | 1 | 198 | H3,370 | - 25-3- | 5,179 |
| Mailani | 5,750 | 1 1 | 464 | 172,330 | - 23-1 | 5,018 |
| Marot | 49h | | 109 | 54,873 | - 3-4 | 1,602 |
| Merta. | 1,618 | , I ; | 370 | 142,854 | - 30.6 | 8,040 |
| Nagaur | 2,608 | 4 : | 420 (| 167,759 | | 9,096 |
| Nawa* . | 305 | 2 | 12 | 24,960 | – 20-9 | 1,930 |
| l'achbhadra . | RF4 | | 105 | 39,427 | - 25-5 | 2,118 |
| Pali . i | 1,034 | . '1 | ho j | 43,8Hg | - 42-9 | 2,787 |
| l'arbatsar . | 840 | | 165 | 87,127 | - 17 | 2,416 |
| Phalodi . | 2,624 | 1 2 3 | 71 ! | 59,619 | - 17 | 5,130 |
| Sämbhar | 160 | i 1 | 6 | 7,438 | - 10.5 | 571 |
| Sanchor . | 1,776 | | 231 | 70,401 | - 26·6 | 1,668 |
| Sankra | 1,279 | [1] | 71 | 25,960 | +1577 | 1,000 |
| | 3,004 | į | 65 ' 80 ' | 24,405 | | 459 |
| Shergarh | 1,450 760 | | 112 | 56,921 | - 19.7 | 2,035 |
| Sojat | . I,172 | 11 | 212 | 53,931 1 0 9,833 | | 9,68 |
| • | 34,963 | 27 | 4,030 | | | 104,841 |

Amalgameted with Sambhar in 1904 a

The large decrease in the population since 1891 was due to a series of bad seasons culminating in the great famine of 1899–1900, and also to heavy mortality from cholera and fever at the end of the decade. The enormous increase in the population of the Sānkra district is ascribed mainly to the immigration of Bhāti Rājputs and others from Jaisalmer, while the small decreases in the Mārot and Sāmbhar districts (both in the north-east) seem to show that the famine was less severely felt there. Of the total population, 1,606,046, or nearly 83 per cent., are Hindus; 149,419, or nearly 8 per cent., Musalmāns; 137,393, or 7 per cent., Jains; and 42,235, or over 2 per cent., Animists. Among the Hindus there are some Dādūpanthis (a sect described in the article on Naraina in the Jaipur State, which is their head-quarters), but their number was not recorded at the last Census. In addition to the two subdivisions of the sect mentioned in that article, there is a third which

is said to be peculiar to Jodhpur and is called Gharbāri. Its members marry and are consequently not recognized in Jaipur as true Dādūpanthis. Another sect of Hindus deserving of notice is that of the Bishnois, who number over 37,000, and derive their name from their creed of twenty-nine (bis + nau) articles. The Bishnois are all Jāts by tribe, and are strict vegetarians, teetotallers, and non-smokers; they bury their dead sometimes in a sitting posture and almost always at the threshold of the house or in the adjoining cattle-shed, take neither food nor water from any other caste, and have their own special priests. The language mainly spoken throughout the State is Mārwārī, the most important of the four main groups of Rājasthānī.

Among castes and tribes the lats come first, numbering 220,000, or over 11 per cent. of the total. They are robust and hard-working and the best cultivators in the State, famed for their diligence in improving the land. Next come the Brahmans (102,000, or nearly 10 per cent.). The principal divisions are the Srīmālis, the Sanchoras, the Pushkarnas. the Nandwana Borahs, the Chennivats, the Purohits, and the Paliwals. They are mostly cultivators, but some are priests or money-lenders or in service. The third most numerous caste is that of the Raiputs (181,000, or over a per cent.). They consider any pursuit other than that of arms or government as derogatory to their dignity, and are consequently indifferent cultivators. The principal Rainut clan is that of the ruling family, namely Rathor, comprising more than 100 septs, the chief of which are Mertia, Jodha, Udāwat, Champāwat, Kumpāwat, Karnot, Jaitawat, and Karamsot. After the Raiputs come the Mahaians (171,000, or nearly o per cent.). They belong mostly to the Oswal. Mahesri, Porwāl, Saraogi, and Agarwāl subdivisions, and are traders and bankers, some having agencies in the remotest parts of India, while a few are in State service. The only other caste exceeding 100.000 is that of the Bilais, or Bhambis (142,000, or over 7 per cent.). They are among the very lowest castes, and are workers in leather, village drudges, and to a small extent agriculturists. Those who remove the carcases of dead animals from villages or towns are called Dheds. Other fairly numerous castes are the Rebaris (67,000), breeders of camels, sheep, and goats; the Mālis (55,000), market-gardeners and agriculturists; the Chakars or Golas (55,000), the illegitimate offspring of Raiputs, on whom they attend as hereditary servants; and lastly the Kumhārs (51,000), potters, brick-burners, village menials, and, to a small extent, cultivators. Taking the population as a whole, more than 58 per cent, live by the land and about another 3 per cent, are partially agriculturists. Nearly 5 per cent. are engaged in the cotton industry or as tailors, &c.; more than 4 per cent. are stock-breeders and dealers, while commerce and general labour employ over 3 per cent. each.

Christians number 224, of whom 111 are natives. The United Free

Church of Scotland Mission has had a branch at Jodhpur city since 1885.

As already remarked. Todhpur is, speaking generally, a sandy tract. improving gradually from a mere desert in the west to comparatively fertile lands along the eastern border. The chief Agriculture natural soils are mattivali, bhūri, retli, and magra or tharra. The first is a claver loam of three kinds. namely kall (black), rati (red), and pili (yellowish), and covers about 18 per cent. of the cultivated area. It does not need frequent manuring, but being stiff requires a good deal of labour; it produces wheat, gram, and cotton, and can be tilled for many years in succession. The second is the most prevalent soil (occupying over 58 per cent. of the cultivated area) and requires but moderate rains. It has less clay than mattivali and is brown in colour; it is easily amenable to the plough, requires manure, and is generally tilled for three or four years and then left fallow for a similar period. The third class of soil (retli) is fine-grained and sandy without any clay, and forms about 10 per cent, of the cultivated area. When found in a depression, it is called dehri, and, as it retains the drainage of the adjacent high-lying land, yields good crops of baira and jowar; but when on hillocks or mounds, it is called dhora, and the sand being coarse-grained, it is a very poor soil requiring frequent rest. Magra is a hard soil containing a considerable quantity of stones and pebbles; it is found generally near the slopes of hills. and occupies about 4 per cent. of the cultivated area. The agricultural methods employed are of the simplest description. For the autumn crops, ploughing operations begin with the first fall of sufficient rain (not less than one inch), and the land is ploughed once, twice, or three times, according to the stiffness of the soil. Either a camel or a pair of bullocks is voked to each plough, but sometimes donkeys or buffaloes

In a considerable portion of the State there is practically only one harvest, the kharif, or, as it is called here, sāwnū; and the principal crops are hājra, jowār, moth, til, maize, and cotton. The cultivation of rahi, or unālu crops, such as wheat, barley, gram, and mustard seed, is confined to the fertile portion enclosed within the branches of the Lūni river, to the favoured districts along the eastern frontier, and to such other parts as possess wells. Agricultural statistics are available for only a portion of the khālsa area (i.e. land paying revenue direct to the State), measuring nearly 4,320 square miles. Of this area, 1,012 square miles (or more than 23 per cent.) were cultivated in 1903-4; and the following were the areas in square miles under the principal crops: hājra, 430; jowār, 151; wheat, 81; til, 66; barley, 23; and cotton, 11.

are used. More trouble is taken with the cultivation of the spring crops. The land is ploughed from five to seven times, is harrowed and

levelled, and more attention is paid to weeding.

Of the total cultivated area above mentioned, 150 square miles (or nearly 15 per cent.) were irrigated in 1903-4: namely, 111 from wells, 12 from canals and tanks, and '27 from other sources. There are, in khālsa territory, 22 tanks, the most important of which are the Jaswant Sāgar and Sardār Samand, called after the late and the present chief respectively. Irrigation is mainly from wells, of which there are 7,355 in the khālsa area. The water is raised sometimes by means of the Persian wheel, and sometimes in leathern buckets. A masonry well costs from Rs. 300 to Rs. 1,000, and a kachchā well, which will last many years, from Rs. 150 to Rs. 300. Shallow wells are dug yearly along the banks of rivers at a cost of Rs. 10 to Rs. 20 each, and the water is lifted by a contrivance called chānch, which consists of a horizontal wooden beam balanced on a vertical post with a heavy weight at one end and a small leathern bucket or earthen jar at the other.

The main wealth of the desert land consists of the vast herds of camels, cattle, and sheep which roam over its sandy wastes and thrive admirably in the dry climate. The best riding camels of Mārwār breed come from Sheo in the west and are known as Rāma Thalia; they are said to cover 80 or even 100 miles in a night. Mallāni, Phalodi, Shergarh, and Sānkra also supply good riding camels, the price of which ranges from Rs. 150 to Rs. 300. The bullocks of Nāgaur are famous throughout India; a good pair will sometimes fetch over Rs. 300, but the average price is Rs. 150. The districts of Sānchor and Mallāni are remarkable for their breed of milch cows and horses. The latter are noted for their hardiness and ease of pace. The principal horse and cattle fairs are held at Parbatsar in September and at Tilwāra (near Bālatra) in March.

Forests cover an area of about 355 square miles, mostly in the east and south-east. They are managed by a department which was organized in 1888. There are three zones of vegetation. On the higher slopes are found sālar (Boswellia thurifera), gol (Odina Wodier), karayia (Sterculia urens), and golia dhao (Anogeissus latifolia). On the lower hills and slopes the principal trees are the dhao (Anogeissus pendula) and sālar; while hugging the valleys and at the foot of the slopes are dhāk (Butea frondosa), ber (Zizyphus Jujuba), khair (Acacia Catechu), dhāman (Grewia pilosa), &c. The forests are entirely closed to camels, sheep, and goats, but cattle are admitted except during the rains. Right-holders obtain forest produce free or at reduced rates, and in years of scarcity the forests are thrown open to the public for grazing, grass-cutting, and the collection of fruits, flowers, &c. The forest revenue in 1904-5 was about Rs. 31,000, and the expenditure Rs. 20,000.

The principal mineral found in the State is salt. Its manufacture is

practically a monopoly of the British Government, and is carried on extensively at the Sāmbhar Lake, and at Dīdwāna and Pachbhadra. Marble is mostly obtained from Makkāna near the Sāmbhar Lake, but an inferior variety is met with at various points in the 'Arāvalli Hills, chiefly at Sonāna near Desuri in the south-east. The average yearly out-turn is about 1,000 tons, and the royalty paid to the Darbār ranges from Rs. 16,000 to Rs. 20,000. Sandstone is plentiful in many parts, but varies greatly in texture and in colour. It is quarried in slabs and blocks, large and small, takes a fine polish, and is very suitable for carving and lattice-work. The yearly out-turn is about 6,000 tons. Among minerals of minor importance may be mentioned gypsum, used as cement throughout the country, and found chiefly near Nāgaur; and fuller's earth, existing in beds 5 to 8 feet below the surface in the Phalodi district and near Būrmer, which is largely used as a hair-wash.

The manufactures are not remarkable from a commercial point of view. Weaving is an important branch of the ordinary village industry,

but nothing beyond coarse cotton and woollen cloths is attempted. Parts of the Jodhpur and Godwär districts are locally famous for their dycing and printing of cotton fabrics. Turbans for men and scarves for women, dyed and prepared with much labour, together with embroidered silk knotted thread for wearing on the turban, are peculiar to the State. Other manufactures include brass and iron utensils at Jodhpur and Nāgaur, ivory-work at Pāli and Merta, lacquer-work at Jodhpur, Nāgaur, and Bagri (in the Sojat district), marble toys, &c., at Makrāna, felt rugs in the Mallani and Merta districts, saddles and bridles at Sojat, and cameltrappings and millstones at Bārmer. The Darbār has its own ice and aerated water factory, and there are five wool and cotton-presses belonging to private individuals.

The chief exports are salt, animals, hides, bones, wool, cotton, oil-seeds, matble, sandstone, and millstones; while the chief imports include wheat, barley, maize, gram, rice, sugar, opium, dry fruits, metals, oil, tobacco, timber, and piece goods. It is estimated that 80 per cent. of the exports and imports are carried by the railway, and the rest by camels, earts, and donkeys, chiefly the former.

The Rājputāna-Mālwā Railway traverses the south-eastern part of the State, and this section was opened for traffic in 1879-80; its length in Jodhpur territory is about 114 miles, and there are 16 stations. A branch of this railway from Sāmbhar to Kuchāwan Road (in the north-east), opened about the same time, has a length of 15 miles with two stations (excluding Sāmbhar). The State has also a railway of its own, constructed gradually between 1881 and 1900, which forms part of the system known as the Jodhpur-Bikaner Railway. This line runs north-west from Mārwār Junction, on the Rājputāna-Mālwā Railway,

to Lūni junction, and thence (1) to the western border of the State in the direction of Hyderābād in Sind, and (2) north to Jodhpur city. From the latter it runs north-east past Merta Road to Kuchāwan Road, where it again joins the Rājputāna-Mālwā Railway, and from Merta Road it runs north-west to Bīkaner and Bhatinda. The section within Jodhpur limits has a length of 455 miles, and the total capital outlay to the end of 1904 was nearly 122 lakhs. The mean percentage of net earnings on capital outlay from the commencement of operations to the end of 1904 has been 7.90, with a minimum of 3.92 and a maximum of 11.40. In 1904 the gross working expenses were 7.3 lakhs and the net receipts 9.6 lakhs, yielding a profit of 7.86 per cent. on the capital outlay.

The total length of metalled roads is about 47 miles and of unmetalled roads 108 miles. All are maintained by the State. The metalled roads are almost entirely in or near the capital, while the principal unmetalled communication is a portion of the old Agra-Ahmadābād road. It was constructed between 1869 and 1875, was originally metalled, and cost nearly 5 lakhs, to which the British Government contributed Rs. 84,000. It runs from near Beāwar to Erinpura, and, having been superseded by the railway, is now maintained merely as a fair-weather communication.

The Darbar adopted Imperial postal unity in 1885-6; and there are now nearly 100 British post offices and five telegraph offices in the State, in addition to the telegraph offices at the numerous railway stations.

The country falls within the area of constant drought, and is liable to frequent famines or years of scarcity. A local proverb tells one to expect 'one lean year in three, one famine year in Famine. eight'; and it has proved very true, for since 1792 the State has been visited by seventeen famines. Of those prior to 1868, few details are on record, but the year 1812-13 is described as having been a most calamitous one. failed completely: food-stuffs sold at a seers for the rupee, and in places could not be purchased at any price; and the mortality among human beings was appalling. The famine of 1868-9 was one of the severest on record. There was a little rain in June and July, 1868, but none subsequently in that year; the grain-crops failed and forage was so scarce in some places that, while wheat was selling at 6, the price of grass was 51/2 seers per rupee. The import duty on grain was abolished, and food was distributed at various places by some of the Ranis, Thakurs, and wealthy inhabitants; but the Darbar, beyond placing a lakh of rupees at the disposal of the Public Works department, did nothing. The highest recorded price of wheat was 32 seers per rupee at Jodhpur city, but even here and at Pali (the two

principal marts) no grain was to be had for days together. Cholera broke out in 1860 and was followed by a severe type of fever, and it was estimated that from these causes and from starvation the State lost one-third of its population. The mortality among cattle was put at 85 per cent. The next great famine was in 1877-8. The rainfall was only 41 inches; the khartf crops yielded one fourth and the rabi one-fifth of the normal out-turn, and there was a severe grass famine. Large numbers emigrated to Guiarat and Malwa with their cattle. and the Darbar arranged to bring the majority back at the public expense. but it was estimated that 20,000 persons and 80,000 head of cattle were lost. This bad season is said to have cost the State about 10 lakhs. The year 1801-2 was one of triple famine (grain, water, and fodder), the distress being most acute in the western districts. About 200,000 persons emigrated with 662,000 cattle, and only 63 per cent. of the former and 58 per cent. of the latter are said to have returned. The Darbar opened numerous relief works and poorhouses; the railway proved a great boon, and there was much private charity. Direct expenditure exceeded 53 laklis, while remissions and suspensions of land revenue amounted respectively to about 2.8 and 1.6 lakhs. succession of bad seasons, commencing from 1895-6, culminated in the terrible famine of 1800-1900. At the capital less than half an inch of rain fell in 1800, chiefly in lune, while in two of the western districts the total fall was only one-seventh of an inch. Emigration with cattle began in August, but it was long before the people realized that Mālwā, where salvation is usually to be found, was equally afflicted by drought. Some thousands were brought back by railway to relief works in Todhour at the expense of the Darbar, and thousands more toiled back by road, after losing their cattle and selling all their household possessions. Relief works and poorhouses were started on an extensive scale in the autumn of 1899 and kept open till September. 1000. During this period nearly 30 million units were relieved. The total cost to the Darbar exceeded 29 lakhs, and in addition nearly of land revenue, or about 90 per cent, of the demand, was remitted. A virulent type of malarial fever which, as in 1869, immediately followed the famine, claimed many victims. There was no fodder-crop worthy of the name throughout the State, and for some time grass was nearly as dear as grain. The mortality among the cattle was estimated at nearly a million and a half. Since then, the State suffered from scarcity in 1902 in the western districts, and again in 1905.

For administrative purposes, Jodhpur is divided into twenty-three districts or hukumats (each under an officer called hakim). In Mallani, however, there is, in consequence of its peculiar tenure, size, and recent restoration to the Darbar, an official termed Superintendent, while the north-eastern districts

have also a Superintendent to dispose of border cases under the extradition agreement entered into with the Jaipur and Bikaner Darbārs.

The State is ordinarily governed by the Mahārājā, assisted by the Mahākma khās (a special department consisting of two members) and a consultative Council; but, during the absence of His Highness, first with the Imperial Cadet Corps and next at Pachmarhī in search of health, the administration has, since 1902, been carried on by the Mahakma khās under the general supervision and control of the Resident.

For the guidance of its judiciary the State has its own codes and laws, which follow generally the similar enactments of British India. There are now 41 Darbar courts and 44 jagtrdars' courts possessing various powers.

The normal revenue of the State is between 55 and 56 lakhs, and the expenditure about 36 lakhs. The chief sources of revenue are: salt, including treaty payments, royalty, &c., about 16 lakhs; customs, 10 to 11 lakhs; land (including irrigation), 8 to 9 lakhs; railway, about 8 lakhs (net); and tribute from jūgīrdārs and succession fees, &c., about 3½ lakhs. The main items of expenditure are: army (including police), about 7½ lakhs; civil establishment, 4 lakhs; public works (ordinary), 3 to 4 lakhs; palace and household, about 3 lakhs; and tribute (including payment for the Erinpura Regiment), nearly 2½ lakhs. During the last few years the expenditure has purposely been kept low, in order to extricate the State from its indebtedness; but now that the financial outlook is brighter, an increased expenditure under various items, such as police, public works, and education, may be expected.

The State had formerly its own silver coinage, one issue being known as Bijai shāhi and another as Iktīsanda. The Iktīsanda rupee was worth from 10 to 12 British annas, while the value of the Bijai shāhi was generally much the same as, and sometimes greater than, that of the British rupee. After 1893 exchange fluctuated greatly till, in 1899, 1223 Bijai shāhi rupees exchanged for 100 British. The Darbār thereupon resolved to convert its local coins, and the British silver currency has been made the sole legal tender in the State. In 1900 more than 10,000,000 rupees were recoined at the Calcutta mint.

Of the 4,030 villages in the State only 690 are khālsa, or under the direct management of the Darbār, and they occupy about one-seventh of the entire area of the State. The rest of the land is held by jāgārdārs, bhūmiās, and ināmdārs, or by Brāhmans, Chārans, or religious and charitable institutions on the sāsan or dohli tenure, or in lieu of pay (pasaita), or for maintenance (jivka), &c., &c. The ordinary jāgārdārs pay a yearly military cess, supposed to be 8 per cent. of the gross rental value (rekh) of their estates, and have to supply one horse-

man for every Rs. 1.000 of rekh. In the smaller estates they supply one foot-soldier for every Rs. 500, or one camel sowar for every Rs. 750. In some cases the inerrdar instead of supplying horsemen, &c., makes a cash payment according to a scale fixed by the Darbar. lagirdars have also to pay hukmnama or fee on succession, namely 75 per cent, of the annual rental value of their estates; but, in the case of a son or grandson succeeding, no cess is levied or service demanded for that year, while if a more distant relative succeeds the service alone The Thakurs of Mallani, holding prior to the Rathor conquest, pay a fixed sum (faujbal) yearly and have no further obligations. The bhūmiās have to perform certain services, such as protecting their villages, escorting treasure, and guarding officials when on tour, and some pay a quit-rent called bhum-bab: provided these conditions are satisfied, and they conduct themselves peaceably, their lands are not resumed. *Inam* is a rent-free grant for services rendered; it lauses on the failure of lineal descendants of the original grantee. and is sometimes granted for a single life only. Sāsam and dohli lands are granted in charity on conditions similar to inam, and cannot be sold. /ivka is a grant to the younger sons of the chief or of a Thakur. After three generations the holder has to pay cess and succession fee, and supply militia like the ordinary jāgīrdār, and on failure of lineal descendants of the original grantee the land reverts to the family of the donor. In the khālsa area the proprietary right rests with the Darbar, which deals directly with the ryots. The latter may be bapidars, possessing occupancy rights and paving at favoured rates, or gair-bapidars, tenants-at-will.

Formerly the land revenue was paid almost entirely in kind. most prevalent system was that known as lata or batai, by which the produce was collected near the village and duly measured or weighed. The share taken by the Darbar varied from one-fifth to one-half in the case of 'dry,' and from one-sixth to one-third in the case of 'wet' crops. This mode still prevails in some of the alienated villages, but in the khālsa area a system of eash rents has been in force since 1804. The first and only regular settlement was made between 1894 and 1896 in 566 of the khālsa villages (originally for a period of ten years). It is on the ryotwari system. The village area is divided into (1) secure. i.e. irrigated from wells or tanks, where the yearly out-turn varies but slightly, and remissions of revenue are necessary only in years of dire famine; and (2) insecure, or solely dependent on the rainfall. In the former portion the assessment is fixed, and in the latter it fluctuates in proportion to the out-turn of the year. The basis of the assessment was the old batai collections together with certain cesses, and the gross yield was calculated from the results of crop experiments made at the time, supplemented by local inquiries. The rates per acre of

wet' land range from Rs. 2-5-6 to Rs. 10 (average, Rs. 2-10-6), while those for 'dry' land range from 1\frac{1}{2} to 12\frac{1}{2} annas (average, 4\frac{1}{2} annas).

The State maintains two regiments of Imperial Service Lancers (normal strength 60s per regiment), and a local force consisting of about 600 cavalry (including camel sowars) and 2,400 infantry. The artillery numbers 254 of all ranks, and there are 121 guns of various kinds, of which 75 (namely, 45 field and 30 fort) are said to be service-In addition, the irregular militia supplied by the iagirdars mustered 2.010 in 1904-5; namely, 1.785 mounted men and 234 infantry. The Imperial Service regiments were raised between 1889 and 1803, and are called the Sardar Risala, after the present chief. Their cost in 1904-5, when they were considerably below strength, was about 3-2 lakhs. The first regiment formed part of the reserve brigade of the Tīrāh Field Force in 1807-8, and two detachments did well on convoy duty; the same regiment was on active service in China in 1000-1, was largely represented in the expedition to the Laushan hill and Chinausai, and was permitted to bear on its colours and appointments the honorary distinction 'China, 1900.' There are no cantonments in the State, but the Darbar contributes a sum of 1-2 lakhs yearly towards the cost of the 43rd (Erinpura) Regiment (see ERINPURA).

Police duties have hitherto been performed by the local force above mentioned; but since August, 1905, a regular police force under an Inspector-General, numbering about 1,500 of all ranks and estimated to cost about 2½ lakhs a year, has been formed. In addition, a small force is employed on the Jodhpur-Bikaner Railway.

Besides the Central jail at the capital, there are subsidiary jails at the head-quarters of the several districts, in which persons sentenced to three months' imprisonment or less are confined, and lock-ups for under-trial prisoners at each thana or police-station.

In the literacy of its population Jodhpur stands second among the twenty States and chiefships of Rājputana, with 5-4 per cent. (10 males and 0-3 females) able to read and write. Excluding numerous indigenous schools, such as Hindu posāls and Musalmān maktabs, 4 private institutions maintained by certain castes but aided by the Darbār, and a Mission girls' school, there were, in 1905, 33 educational institutions kept up by the State, one of which was for girls. The number on the rolls was nearly 2,300 (more than 50 per cent. being Mahājans and Brāhmans, and 12 per cent. Musalmāns), and the daily average attendance during 1904-5 was about 1,740. The most notable institutions are at the capital: namely, the Arts college, the high school, and the Sanskrit school. Save at the small railway school at Merta Road, where a monthly fee of 2 or 4 annas per pupil is taken, education is free throughout the State, and the expenditure exceeds Rs. 44,000 a year.

There are 24 hospitals and 8 dispensaries in the State, which have accommodation for 342 in-patients. In 1904 more than 178,000 cases, including nearly 3,000 in-patients, were treated, and about 7,700 operations were performed. The State expenditure on medical institutions, including allowances to the Residency Surgeon, is approximately Rs. 70,000 yearly.

Vaccination was started about 1866, is compulsory throughout the State, and not unpopular. A staff of 2 superintendents and 22 vaccinators is maintained, and in 1904-5 they successfully vaccinated 61,000

persons, or nearly 32 per 1,000 of the population.

[C. K. M. Walter, Gazetteer of Mārwār and Mallāni (1887); Rājputāna Gazetteer, vol. ii (1879, under revision); Sukhdeo Parshad, The Rāthors, their Origin and Growth (Allahābād, 1896); Report on Fumine Relief Operations in Mārwār during 1896-7 and during 1899-1900; Report on the Census of Mārwār in 1891, vols. i and ii (1891-4); A. Adams, The Western Rājputāna States (1899); also Administration Reports of the Mārwār State (annually from 1884-5).

Jodhpur City. -Capital of the State of the same name in Rājputāna, situated in 26° 18' N. and 73° 1' E., about 380 miles by rail from Delhi, 590 from Hombay, and 1,330 from Calcutta. The population of the city (including the suburbs) was: (1881) 63,329, (1891) 80,405, and (1901) 79,109. In the two years last mentioned between 76 and 77 per cent. of the inhabitants lived within the city walls. In 1901 Hindus numbered 58,292, or more than 73 per cent. of the total; Musalmāns, 15,811, or 20 per cent.; and Jains, 4,571, or 5 per cent.

lodhpur takes its name from Rao Iodha, who founded it in 1459. The old wall with four gates built by him is now included within the limits, and is situated in the south-west of the modern city, which lies on sloping ground in the form of a horseshoe around the base of the rock on which stands the fort. It is encircled by a strong massive wall. built in the first half of the eighteenth century, which is 24,600 feet long, 3 to 9 feet thick, and 15 to 30 feet high, and has six gates studded with sharp iron spikes to protect them against elephant ramming. Of these gates, five are called after the towns which they face, namely Jalor, Merta, Nāgaur, Siwāna, and Sojat, while the sixth is named Chānd Pol because it faces the direction in which the new moon (chānd) is visible. The walls and towers near the Nagaur Gate show marks of cannon-balls left by the armies of Jaipur and Bikaner which, with the aid of the great freebooter, Amir Khan, marched on Jodhpur about 1807 to support the pretender Dhonkal Singh against Mahārājā Mān Singh. Eventually Amir Khan changed over to the side of the latter, and the insurgents were forced to retire with considerable loss and ignominy. The fort, which is the finest in Rajputana, commands the city and, standing in great magnificence on an isolated rock about 400 feet above the sur-

rounding plain, attracts the eye from afar. Its wall, 20 to 120 feet in height and 12 to 70 feet thick, encloses an oblong space about soo yards in length by 250 in breadth at the widest part. Two main entrances, the Jai Pol at the north-east corner and the Fateh Pol in the south-west lead up from the city, and between them are several other gates and inner walls erected for purposes of defence. The principal buildings in the fort are a series of apartments forming the palace, the most noteworthy being the Moti Mahal, built by Raja Sur Singh in the beginning of the seventeenth century, the Fateh Mahal, built by Maharājā Ajīt Singh about 100 years later to commemorate the retirement of the Mughal army from his capital, and the room now used as an armoury. These buildings are decorated with beautifully carved panels and pierced screens of red stone. The city contains many handsome buildings, including ten old palaces, some town residences of the Thakurs, and eleven fine temples, the most beautiful architecturally being the Kuni Bihari-ka-mandar, built in the latter half of the eighteenth century.

Iodhpur is a trading centre, but its industries are unimportant, consisting of lacquer-work, dveing of cotton cloths, and the manufacture of brass and iron utensils. The main streets are payed; and a light tramway of 2 feet gauge, laid down in 1806 between the railway station and the city, the cars being drawn by bullocks, has proved of great convenience to the public, and has considerably reduced the cost of carriage of grain and other commodities. A municipal committee (established in 1884) attends to the sanitation of the city, and settles disputes relating to rights of easement, &c., the annual expenditure of about Rs. 20,000 being borne solely by the Darbar. A tramway line, worked by buffaloes, runs round the city, passing all but one of the public latrines. Twice a day the loaded wagons are collected and formed into trains outside the Sojatia Gate, whence they are hauled by steam-power a distance of about 5 miles into the open country, where the filth is trenched and the refuse burnt. This steam conservancy tramway is the first of its kind in Raiputana. The total length of the line, including the section worked by buffaloes, and an extension up to and round the Mahārājā's stables, now exceeds 13 miles. It was completed between 1897 and 1899 at a cost of more than 14 lakhs, and the working expenses average about Rs. 7,000 a year. Within the city are three hospitals and a couple of dispensaries. Of the hospitals, one is solely for females and another is maintained by the United Free Church of Scotland Mission. In the suburbs there are hospitals attached to the jail and the Imperial Service cavalry regiments, and a couple of dispensaries, one of which is close to the Residency and is kept up by the British Government, while the other is for railway employes. city possesses an Arts college, a high school with lower secondary and

primary sections, and a boarding-house for fifty Rājput boys; also two primary schools, a girls' school, and three special institutions where Sanskrit, telegraphy, and surveying are taught. These are all maintained by the Darbār and are for the most part in the suburbs; there are, in addition, numerous private schools in the city. The principal buildings in the suburbs are the late Mahārājā's palace at Rai-kā-bāgh, the fine new palace at Ratanāda which is lighted by electricity, the Imperial Service cavalry lines, the handsome public offices, the Residency and other official buildings, and the jail with accommodation for 862 prisoners.

Iodiva .- Town and chief port of Navanagar State, Kathiawar, Bombay, situated in 22° 40' N. and 70° 26' E., about 24 miles northeast of Navanagar town, 46 miles north-west of Raikot, and 40 miles west of Morvi. Population (1901), 7,321. The port was formerly a fishing village on the south-eastern shores of the Gulf of Cutch. The wharf is about a mile and a half distant from the town, with which it is connected by a good made road. A custom-house and a press for cotton and wool bales are at the wharf. The water off this part of the coast is too shallow for ships of any considerable burden. According to a local legend, the Gulf from Iodiya to the opposite coast of Cutch could be crossed by a footpath at low water 200 years ago. The northwest bastion of the fort. So feet above the sea, the palace or darbar house, 300 yards south-east of the bastion, and a grove of trees, a mile to the south and outside the town, are high and conspicuous marks when nearing the port from seaward. The town is surrounded by a wall with towers and a small interior fort. It has vernacular boys' and girls' schools and a dispensary.

Jogeshvari.—Cave in the Salsette tāluka of Thāna District, Bombay, situated in 19° 13′ N. and 72° 59′ E., 2½ miles south-east of Goregaon station, on the Bombay, Baroda, and Central India Railway. It is the third largest of the great Brāhmanical caves of India, the others being Sitā's Bath at Ellora and the Great Cave at Elephanta. Its length is 240 and breadth 200 feet. This cave-temple, which dates from the seventh century, contains tock-cut passages, an immense central hall supported by pillars, porticoes, and subsidiary courts.

[Du Perron (1760), Zend Avesta, vol. i, pp. ccclxxxviii-ccexc; Hunter (1784), Archaeologia, vol. vii, pp. 295-9; Salt (1806), Transactions of the Bombay Literary Society, vol. i, pp. 44-7; Bombay Gazetteer, vol. xiv, pp. 110-2.

Jogighopā.— Village in Goālpāra District, Eastern Bengal and Assam, situated in 26° 14′ N. and 90° 34′ E., on the north bank of the Brahmaputra at the point where it is joined by the Manās. Population (1901), 734. A steam ferry plies between Jogighopā and Goālpāra, and the telegraph wires are carried beneath the river at this point to the south bank. Prior to the annexation of Assam, Jogighopā was

a frontier outpost of Bengal, and a number of Europeans resided here, who forcibly obtained a monopoly of the Bengal trade and were thus enabled to do a lucrative business with the natives who enjoyed similar privileges in Assam. Four large tombs remain as evidence of their occupation, but the inscriptions have disappeared. Jogighopā derives its name from some caves cut out of the rocks near the river bank, which at one time used to be occupied by ascetics. The place is now of little importance, but contains a tahsīl belonging to the Bijni estate.

Johl.—Tāluka of Lārkāna District, Sind, Bombay, lying between 26° 7' and 27° N. and 67° 11' and 67° 47' E., with an area of 760 square miles. The population in 1901: was 51,218, compared with 51,919 in 1891. The tāluka contains 87 villages, of which Johi is the head-quarters. The density, 67 persons per square mile, is much below the District average. In 1903-4 the land revenue and cesses amounted to 1.4 lakhs. About a quarter of the tāluka is irrigated by the Western Nāra system and the Manchhar Lake. The remainder depends upon the rainfall, and the harvest is therefore precarious. The soil has great capabilities, and with seasonable rain three crops of jowār are obtained from one sowing. Migration to the irrigated tracts accompanies years of scanty rainfall. The Kīrthar Hills bound the tāluka on the west.

Jollarpet.—Village and railway station in Salem District, Madras. See JALĀRPET.

Jona-male. - Hill in Coorg. See SOMA-MALE.

Jorā.—Head-quarters of the Tonwarghār district of Gwalior State, Central India, situated in 26° 20′ N. and 77° 49′ E., on the Gwalior Light Railway. Population (1901), 2,551. The place is usually called Jorā-Alāpur, to distinguish it from other places of the same name. Alāpur is a village lying a mile to the north. Jorā contains the ruins of an old fort built by the Karauli chiefs, the usual district offices, a school, a dispensary, a State post office, a sarai, a public works inspection bungalow, and a police station.

Jorhāt Subdivision.—Central subdivision of Sibsāgar District, Eastern Bengal and Assam, lying between 26° 22' and 27° 11' N. and 93° 57' and 94° 36' E., with an area of 819 square miles. About two-fifths of the subdivision lies north of the main channel of the Brahmaputra, and is known as the Mājull island, a comparatively sparsely peopled tract, liable to damage from flood. The part south of the river is one of the most populous portions of the Assam Valley, and in places has a density exceeding 600 persons per square mile. The swamps fringing the Brahmaputra are inundated in the rains; but farther inland stretches a broad plain, the lower part of which is cultivated with rice, while tea and sugar-cane are grown on the higher land.

The population in 1901 was 219,137, about one-fourth of which was enumerated on tea gardens, as compared with 181,152 in 1891. The subdivision contains one town, JORHĀT (population, 2,899), the head-quarters; and 651 villages. The annual rainfall at Jorhāt town averages 80 inches, but on the eastern border of the subdivision it is a little higher. In 1904 there were altogether 56 tea gardens with 30,851 acres under plant, which gave employment to 62 Europeans and 36,849 natives. The subdivision is particularly well supplied with means of communication, as the Assam-Bengal Railway runs along the south-east, and at Titābar and Mariāni meets a light state railway, which passes through Jorhāt town to the Brahmaputra. The assessment for land revenue and local rates in 1003-4 was Rs. 5,79,000.

Jorhat Town.—Head-quarters of the subdivision of the same name in Sibsagar District, Eastern Bengal and Assam, situated in 26° 45' N. and 040 13' E., on the left bank of the Disai river. The town had a population in 1901 of 2,800, and is administered as a Union under (Hengal) Act V of 1876, the expenditure in 1003-4 amounting to nearly Rs. 8.000. Jorhat was the capital of the Ahom Rajas after Gaurinath Singh had been driven from Rangpur near Sibsagar at the end of the eighteenth century. It contains a fine tank of excellent water, on the banks of which the subdivisional officer's residence and office have been located, and the remains of considerable earthworks. There is a flourishing bazar, the largest shops in which are owned by Mārwāri merchants, who do a large business with the tea gardens in the neighbourhood. The principal articles of import are cotton piecegoods, grain, salt and oil, the chief exports being mustard seed, cane. and hides. Furniture and haberdashery are sold by Muhammadan traders from Bengal. A colony of Telis has been formed in the town. who express mustard oil in the ordinary bullock-mills of Upper India; and Jorhat is the chief centre for the manufacture of Assamese jewellery, which usually consists of lac covered with gold and enamel and set with cheap stones. The public buildings include a small iail, a hospital with twenty-four beds, and two high schools which in 1403-4 had an average attendance of 452 boys. A daily market for the sale of native produce is numerously attended; and, owing to the density of the population and the presence of a large number of prosperous gardens in the neighbourhood, Jorhat has become the most important centre of trade in the District. A light state railway passes through the town, connecting it with the Brahmaputra at Kakilamukh and with the Assam-Bengal Railway at Mariani and Titabar. The transfer of the head-quarters of the District from Sibsagar to Jorhat has recently been sanctioned.

Joshimath. -- Village in Garhwäl District, United Provinces, situated in 30° 33' N. and 79° 35' E., at an elevation of 6,107 feet above sea-

level and about 1,500 feet above the confluence of the Dhauli and Bishanganga, the combined stream being known as the Alaknanda. Population (1900), 468 in summer and a little larger in winter. It is chiefly remarkable as the winter head-quarters of the rāwal or chief priest of the temple of BADRĪNĀTH, who retires here after the snows have rendered the higher shrine inaccessible. The village contains several ancient temples, some of which have been much damaged by earthquakes. A police station is opened here during the pilgrim season.

Jotana.—Petty State in Mani Kantha, Bombay.

Jotiba's Hill (also called Vadi Ratnagiri).—Hill in the State of Kolhāpur, Bombay, situated in 16° 48' N. and 74° 13' E., about o miles north-west of Kolhapur town. It rises about 1.000 feet from the plain in a truncated cone, and, though disconnected, forms part of the Panhāla spur which stretches from the crest of the Western Ghāts to the Kistna. On the wooded hill-top is a small village with 1.400 inhabitants, mostly priests of Jotiba. From very ancient times this hill has been considered especially sacred. In the middle of the village is a group of temples, three of which are dedicated to Jotiba, under the names of Kedarling, Kedareshwar, and Ramling. According to a local legend, Amba Bar of Kolhapur, being disturbed by demons, went to Kedārnāth in the Himālava hills, practised severe penance, and prayed him to destroy the demons. In answer to her prayers Kedareshwar came to Jotiba's Hill, bringing with him and setting up the present Kedar lingam. The original temple is said to have been built by one Nāvji Saya. In its place Rānojî Sindhia built the present temple in 1730. The second temple of Kedareshwar was built by Daulat Rao Sindhia in 1808. The third temple of Ramling, including the dome. was built about 1780 by one Māljī Nilam Panhālkar. In a small domed shrine in front of the temple of Kedäreshwar are two sacred bulls of black stone. Close to these temples is a shrine sacred to Chopdai, which was built by Priti Rao Himmat Bahadur in 1760. A few yards outside of the village stands a temple of Yamai, built by Rănoji Sindhia. In front of this are two sacred cisterns, one of which is said to have been built by Jijābai Sāhib about 1743; the other, called lāmadagnya tirth, was built by Rānoji Sindhia. Most of the temples on Jotiba's Hill are made of a fine blue basalt which is found on the hills. In many parts the style of architecture, which is strictly Hindu, is highly ornamented, several of the sculptured figures being covered with brass and silver plates. The chief object of worship is Jotiba, who, though called the son of the sage Pangand, is believed to have been Pangand himself, reincarnated to help the rulers of the Deccan in their fights with the demons. According to tradition, Jotiba's destruction of one of the demons named Ratnasur gave the

place the name of Ratnagiri. In honour of the victory over the demon, on the full moon of Chaitra (March-April) a yearly fair is held attended by 40,000 or 50,000 people, some of whom come from great distances. Besides this great fair, small fairs are held every Sunday and full moon day and on the 6th of the bright half of Shrāvan (August). On these days the image is carried round the temple in a litter with great pomp.

Jounpore.—District, tahsil, and city, United Provinces. See launpur.

Jowai Subdivision.—Subdivision of the Khāsi and Jaintiā Hills District, Eastern Bengal and Assam, lying between 24° 58′ and 26° 3′ N. and 91° 59′ and 92° 51′ E., with an area of 2,086 square miles. Jowai originally formed part of the territory of the Jaintiā Rājā, and was acquired from him by the British in 1835. The population in 1901 was 67,921, as compared with 64,521 in 1891, giving a density of 33 persons per square mile. Most of the inhabitants are Syntengs, a tribe of Tibeto-Burman origin akin to the Khāsis. The subdivision contains 640 villages, and is in charge of a European Magistrate, whose head-quarters are at Jowai, a prosperous village with some local trade. The rainfall is recorded only at Jowai itself, where there is an average annual fall of 237 inches; but on the southern face of the hills the precipitation is probably even greater.

Jowai Village. Headquarters of the Jowai subdivision of the Khāsi and Jaintiā Hills District, Eastern Bengal and Assam, situated in 25° 26′ N. and 92° 12′ E., at a height of 4,422 feet above the sea. Population (1901), 3,511. Jowai is the head-quarters of the subdivisional officer, who is almost invariably a European, and it possesses a considerable trade. The chief exports are raw cotton and rubber: the imports are rice, dried fish, cotton goods, and salt. The average annual rainfall is 237 inches.

Jūba. Described fortress in the Surgujā State, Central Provinces, situated in 23° 43′ N. and 83° 26′ E., about 2 miles south-east of Mānpurā village. The fort stands on the rocky shoulder of a hill, and commands a deep gorge overgrown with jungle. Hidden among the trees are the remains of carved temples, almost covered with accumulations of vegetable mould.

Jubbal (Iubal). One of the Simla Hill States, Punjab, lying between 30° 46′ and 31° 8′ N. and 77° 27′ and 77° 50′ E., with an area of 288 square miles. Population (1901), 21,172. Jubbal was originally tributary to Simur, but after the Gurkha War it became independent. The Rānā misgoverned the State, and in 1832 abdicated in favour of the British Government, but soon, however, repented, and in 1840 the State was restored to him. His grandson, Padam Chand, ruled the State with ability from 1877 till his death in 1898, and was succeeded by Gyān Chand, the present Rānā, who is a minor. The State is now

under the management of a British official. The ruling family is by caste Rāthor Rājput. The State contains 84 villages, including Deorha, its capital, and has an estimated revenue of nearly Rs. 1,52,000. The chief products are grain, tobacco, and opium.

Jubbulpore Division (Jabalpur).—Northern Division of the Central Provinces, lying between 21° 36′ and 24° 27′ N. and 78° 4′ and 81° 45′ E., with an area of 18,950 square miles. The head-quarters of the Commissioner are at Jubbulpore City. The Division contains five Districts, as shown below:—

| D | etric | ı | | Atta in square inites | Population, 1901 | Land revenue and ceases, 1904-4, in thomsands of rupees. |
|--|-------|----|-------|---|---|---|
| Saugor Damoh Jubbulpe Mandia Seoni | ore | : | | 3.962 2,816 3,912 5,054 3,206 | 469,479 285,326 680,585 318,400 327,709 | 5,52 3,89 9,67 1,97 3.13 |
| 1 | | To | tal ' | 18,950 | 2.081,499 | 24,1R |

The District figures of area and population have been adjusted to allow for some small transfers of infritory since the Census of 1001

Of these, Saugor and Damoh and the Murwāra tahsīl of Jubbulpore lie on the Vindhyan plateau to the north; the southern part of Juhbulpore is situated at the head of the narrow valley through which the Narbada river flows between the Vindhyan and Satpura ranges; while Seom and Mandla form part of the Satpura plateau to the south. The Division therefore consists generally of hilly country, lying at a considerable elevation and enjoying a comparatively temperate climate. In 1881 the population of the Division was 2,201,573, which increased in 1891 to 2,375,610 or by 8 per cent. The increase was considerably below the average for the Province, the decade having been an unhealthy one, especially in Saugor and Damoh. In 1901 the population was 2,081,016, a decrease of 12 per cent. on the figures of 1891. Since the Census a small transfer of territory has taken place, and the adjusted population is 2,081,499. All Districts of the Division suffered severely from famine during the decade. In 1901 Hindus formed 74 per cent. of the total and Animists 20 per cent. There were 89,731 Musalmans, 20,018 Jains, and 5,878 Christians, of whom 2,706 were Europeans and Eurasians. The density of population is 110 persons per square mile, as compared with 112 for all British Districts of the Province. The Division contains 11 towns and 8,561 inhabited villages; but JUBBULFORE CITY (90,316) and SAUGOR (42,330) are the only towns with a population of more than 20,000. Thirteen miles from Jubbulpore, at a gorge overhanging the Narbada river, are the well-known MARBLE ROCKS.

Jubbulpore District. District in the Jubbulpore Division of the Central Provinces, lying between 22° 49′ and 24° 8′ N. and 79° 21′ and 80° 58′ E., at the head of what may be called the Narbadā Valley proper, with an area of 3,912 square miles. On the north and east it is bounded by the States of Maihar, Pannā, and Rewah; on the west by Damoh District; and on the south by Narsinghpur, Seonī, and Mandlā. The Narbadā, entering the District from the Mandlā highlands on the south east, winds circuitously through its southern portion,

passing within 6 miles of the city of Jubbulpore, and **Physical** finally leaves it on the south-western border. To amects. the north of the Narbadā extends an open plain. bounded on the north-west by offshoots of the Vindhyan, and on the south west by those of the Satpura range. Farther to the northwest the surface becomes more uneven, small tracts of level alternating with broken and hilly country. The south western plain, called the Havely, is one of the richest and most fertile areas in the Province. It consists of a mass of embanked wheat fields, and occupies the valley of the Hiran and Narhada rivers, extending from the south-western border of the District as far north as the town of Sihora, and from the Hiran river flowing close beneath the Vindhyan Hills to the railway line, including also a tract round Saroli beyond the line. On the western bank of the Hiran, the Bhamer range of the Vindhyan system forms the boundary between Jubbulpore and Damoh. To the south-east of the Haveli lies a large tract of poor and hilly country, forming the northern footbills of the Satpura range. North of the Havely the Vindhyan and the Sătpura systems approach each other more closely. until they finally almost meet in the Murwaya tahsil. The Kaimur ridge of the Vindhyas commoning at Katangi runs through the west of the Sihora tabol, and approaches Murwara, leaving to the north-west a stretch of hill country with one or two small plateaux. the Satpurás run down to the railway between Sahorā and Sleemanābād. and from them a ridge extends northwards till it facets the Vindhyan system at Dijeraghogarh in the extreme north of the District. Between these ranges he stretches of comparatively open country, less fertile than the Havely Lying at the junction of the Vindhyan and Satpura ranges. Jubbulpore forms part of the great central watershed of India. The southern part of the District is drained by the Narbada and its tributaries, the Hiran and Gaur. In the north the Mahānadi, after forming for some distance the boundary between Jubbulpore and Rewah. crosses the Murwara tahsii and passes on to join the Son, a tributary of the Ganges. The Katni river flowing by Katni-Murwara is an affluent of the Mahanadi. The Ken river rises in the Kaimur range on the west, but flows for only a short distance within the District.

The valley of the Narbada from Jubbulpore to the western boundary

is an alluvial flat, chiefly composed of a stiff red or brown clay with numerous intercalated bands of sand and gravel. Kankar abounds throughout the deposit, and pisolitic iron granules are of frequent occurrence. The southern and eastern portions of the District are generally covered by the Deccan trap. In the north is a continuous exposure of sub-metamorphic strata, consisting of fine earthy slate, quartzite, limestone, ribboned jasper passing locally into bluish quartzite, micaccous hematite and other rocks. In these rocks or in association with them the manganese, lead, and copper ores, and the richest iron ores of the District occur. The rocks round Jubbulpore are gneiss.

The plain country is well wooded with mango, tamarind, ber (Zizyphus fujuba), guava, mahuā (Bassia latifolia), and other fruit-bearing trees. Among the ornamental or quasi-religious trees are the banyan, pipal, and kachnār (Bauhinia variegata). The hills are covered with forest, which formerly suffered great loss from the annual clearing of patches by the hill tribes and from grass fires. The principal timber trees are teak, sāj (Terminalia tomentosa), haldu (Adina cordifolia), tendu or ebony (Diospyros tomentosa), and bamboos. Peaches and pineapples and excellent potatoes and other vegetables are also grown.

The usual wild animals and birds are found in Jubbulpore, and there is a considerable variety of game. Tigers and leopards are the common carnivora; and the deer and antelope tribe includes sāmbar, spotted deer, 'black buck,' and the chinkāra or Indian gazelle.

The annual rainfall averages 59 inches, and is usually copious, that of Murwāra in the north being somewhat lighter and also apparently more variable. The climate is pleasant and salubrious. The average maximum temperature in May does not exceed 106°, and in the cold season light frosts are not infrequent.

The village of Tewar, lying a few miles from Jubbulpore, is the site of the old city of Tripura, or Karanbel, the capital of the Kalachuri dynasty. The information available about the Kalachuri or Chedi dynasty has been pieced together from a number of inscriptions found in Jubbulpore District, in Chhattisgarh, and in Benares 1. They belonged to the Haihaya Rājputs, and were a branch of the Ratanpur family who governed Chhattisgarh. Their rise to power possibly dates from shortly after the commencement of the Christian era, and they had an era of their own called the Chedi Samvat, which commenced in A.D. 249. For the first five or six centuries of their rule there remain only a few isolated facts; but for a period of three hundred years, from the ninth to the twelfth century, a complete genealogy has been drawn up. We have the names of eighteen kings, and occasional mention of their marriages or wars with

¹ Records of the Archaeological Survey, vol. ix, p. 78 seq.

the surrounding principalities—the Rāthors of Kanauj, the Chandels of Mahobā, and the Paramāras of Mālwā. Their territory comprised the upper valley of the Narbadā. From the twelfth century nothing more is known of them, and the dynasty probably came to an end, eclipsed by the rising power of Rewah or Baghelkhand. At a subsequent period, probably about the fifteenth century, Jubbulpore was included in the territories of the Gond Garhā-Mandlā dynasty, and Garhā was for some time their capital. On the subversion of the Gonds by the Marāthās in 1781, Jubbulpore formed part of the Saugor territories of the Peshwā. It was transferred to the Bhonsla Rājās of Nāgpur in 1708, and became British territory in 1818.

In 1857 Jubbulpore was garrisoned by the 52nd Native Infantry and was the head quarters of Major Erskine, the Commissioner of the Saugor and Nerbudda Territories, then attached to the North-Western Provinces In June, 1857, the demeanour of the native troops became suspicious, and the Europeans in the station were collected in the Residency, which was made defensible. The sepoys, however, remained quiet; and in August a movable column of Madras troops arrived from Kampice, and were sent forward to restore order in the interior of Jubbulpore and Damoh Districts, which were in a very disturbed condition and were being raided by mutineers from Saugor. On September 18 the deposed Gord Rājā of Garhā-Mandlā and his son, who had been detected in a conspiracy against the British, were blown away from guns, and on that night the whole of the 52nd egiment quietly rose and left the station. The Madras troops who were then at Damoh were recalled, and on arriving at Katangi found the rebels on the farther bank of the Hiran river. The passage was forced and the enemy put to flight, and no serious disturbance occurred subsequently. The northern pargana of Bijeraghogarh was formerly a Native State. The chief was deposed for participation in the Mutiny, and his territory was incorporated in Jubbulpore District in 1865.

The relics of the different races and religions which at one time or another have been dominant in Jubbulpore are fairly numerous, but are now for the most part in ruins. Remains of numerous old Hindu temples and fragments of carved stone are found in a group of villages on the banks of the Ken river, north-west of Murwāra. These are Rithi, Chhoti-Deori, Simrā, Pureni, and Nāndchānd. The ruins at Bargaon belong to the Jains. Bilehri, a little to the south, was once a place of some note; but the only remains now existing are a great tank called Lachhman Sāgar, a smaller tank, and two temples. In the centre of the District the villages of Bahuriband, Rūpnāth, and Tigwān contain another group of remains. Bahuriband ('many embankments') is believed to have once been the site of a large city, con-

jecturally identified by Cumningham with the Tholohana of Ptolemy. The only piece of antiquity now remaining is a large naked Jain statue, with an inscription of the Kalachuri dynasty of Tewar. A small hill at Tigwān, two miles from Bahuriband, is covered with blocks of cut stone, the ruins of many temples which have been destroyed by the railway contractors. At Rūpnāth there is a famous *lingam* of Siva, which is placed in a cleft of the rock, where a stream pours over the Kaimur range; but the place is more interesting as being the site of one of the rock-inscriptions of Asoka. Separate mention is made of Garhā, now included in the city of Jubbullpore.

The population of the District at the last three enumerations was as follows: (1881) 687,233, (1891) 748,146, and (1901) 680,585. The increase of 9 per cent. between 1881 and 1891 was smaller than that for the Province as a whole.

During the last decade the loss of population has been 9 per cent., being least in the Murwāra tahsīt. The District contains three towns, Jubeulpore City, Sihorā, and Murwāra: and 2,298 inhabited villages. The principal statistics of population in 1901 are shown below:—

| Tahsil | Med in spare miles, | Villages, | Population | Population per square mile | Percentage of variation in population be- tween 1891 and 1901. | Number of persons able to read and |
|-------------------------------------|--------------------------|---------------------------|-------------------------------|----------------------------|--|------------------------------------|
| Jubbulpore , Siborā . Murwāra | 1,519 ,1,197 1,196 | 1 1,076 1 706 1 516 | 332,488 186,424 161,673 | 219 156 135 | - 8-1 - 12-5 - 7-2 | 21,007 7.974 6,745 |
| District total | 3,912 | 3 2,29R | 680.585 | 174 | - 9.0 | 35,816 |

The figures for religion show that $87\frac{1}{2}$ per cent. of the people are Hindus, $5\frac{1}{2}$ per cent. Animists, and $5\frac{1}{2}$ per cent. Muhammadans, while there are 6,177 Jains. Nearly the whole population is returned as speaking the Baghell dialect of Eastern Hindl (this form of the language closely resembles the dialects of Oudh and Chhattisgarh, and is found elsewhere in the Central Provinces only in Mandla. About 5,000 persons are returned as speaking Gondi.

The principal landholding castes are Brāhmans (64,000), Baniās (17,000). Gonds (79,000), Kurmis (35,000), Rājputs (17,000), and Lodhīs (41,000). The Brāhmans hold no very important estates, but numerous small ones, not infrequently assigned to them partly or wholly revenue-free from the time of the Gond rulers. Brāhmans form 9 per cent. of the total population, a fact which is partly to be attributed to the number of sacred places on the Narbadā. Kurmīs and Lodhīs are the principal cultivating castes; the Lodhīs have several fine

estates, frequently held on quit-rent tenure and locally called jāgīrs. The Gonds number nearly 79,000, or 11½ per cent. of the population. The Bhariā Bhumiās (22,000) are another primitive tribe. The Bhumiā proper is the village priest, charged with the worship of the local deities, and generally receiving a free grant of land from the proprietor. The Bhariās, on the other hand, have strong thieving propensities, and are sometimes spoken of as a criminal tribe. The identity of the two is uncertain. The Kols, who number about 46,000, or nearly 7 per cent. of the population, live more in the open country than the Gonds, and are employed as farm-servants or on earth-work. Agriculture supports about 62 per cent. of the population.

Christians number 3,688, of whom 2,044 are Europeans and Eurasians. The Church Missionary Society and the Zanāna Mission of the Church of England, and others belonging to the Wesleyan, American Methodist, and Roman Catholic Churches, are working in the District; all of these have their head-quarters at Jubbulpore city.

The best soil of the District is the black alluvial clay (kabar) or loam (mund) of the upper Narbada valley. The former covers nearly 12 and the latter 26 per cent, of the cultivated area. Sandy Agriculture. rice land formed from crystalline rock covers about to per cent,, and mixed black and sandy soil, which sometimes produces wheat, nearly 12 per cent. Most of the remaining land is either very shallow blackish soil, or the red and stony land of the hills. About 25 per cent, of the occupied area is generally uncultivated, long cesting fallows being required for the shallow stony soil on which light rice and the minor millets are grown. The distinctive feature of agriculture in Jubbulgore is the practice of growing wheat in large embanked fields, in which water is held up during the monsoon season, and run off a fortnight or so before the grain is sown. The advantages of this system are that there is little or no growth of weeds, most of the labour of preparing the land for sowing is saved, and the cultivator is independent of the variable autumn rain, as the fields do not dry up.

With the exception of 1,094 acres settled on the *ryotwāri* system, all land is held on the ordinary *mālgusari* tenure. The following table gives the principal statistics of cultivation in 1903-4, areas being in square miles:—

| / ahgd | Tutal | Cultivated | Irrigated | Cultivable waste | Forests. |
|-----------------------------------|-------------------------|-------------------|-------------|---------------------|------------------|
| Jubbulpore . Sihoră Murwara | 1,519 1 197 1,196 | 799 563 607 | 2 3 1 | 412 344 354 | 113 96 137 |
| Fotal | 3,912 | 1,969 | ÷ | 1,110 | 346 |

What waste land remains is situated mainly in the poor and hilly tracts, and does not offer much scope for further extension of cultivation. In the open portion or Haveli every available acre of land has been taken up, and there are no proper grazing or even standing grounds for cattle. The gross cropped area is about 1.705 square miles, of which 156 square miles are double cropped. Wheat occupies 628 square miles, or 32 per cent, of the cropped area; rice, 103 square miles: kodon and kutki. 116 square miles: gram. 184 square miles: and the oilseed til, 154 square miles. As in other Districts, there has been considerable deterioration in cropping, wheat, which twelve years ago overshadowed all other crops in importance, being supplanted by millets and oilseeds of inferior value. The area sown singly with wheat is only about a third of what it was, while the practice of mixing it with gram has greatly increased in favour. Little cotton is grown in Jubbulpore, and that of a very coarse variety. Betel-vine gardens exist in a number of places, among the principal being the neighbourhood of Jubbulpore city and Bilehri. Fruits and vegetables are also grown to supply the local demand.

Cultivation expanded very largely up to 1892; but the famines produced a serious decline, and complete recovery had not been attained in 1903-4. The area sown with two crops has largely increased since 1864. San-hemp is a profitable minor crop which has lately come into favour. During the eleven years ending 1904, Rs. 22,000 was horrowed under the Land Improvement Act, mainly for the embankment of fields, and 4.65 lakhs under the Agriculturists' Loans Act, a third of which was distributed in the famine of 1897.

The cattle bred in the District are of no special quality. Many animals of the Gwalior and Saugor breeds are imported from outside, being purchased by the local agriculturists at Garhākotā fair. The price of cattle is said to have risen largely since the famines of 1807 and 1900, owing to the numbers killed for the export of hides and flesh. The returns show that about 13,000 are slaughtered annually. while in 1896-7 the number amounted to 41,000 out of a total of 490,000 shown in the District returns. Grazing is very scarce in the open embanked wheat lands of the Havell, and most of the cattle are sent to the forests for grazing during the rains, when the fields do not require ploughing. Buffaloes are bred, and the cows are kept for the manufacture of ghi, while the young bulls are either allowed to die from neglect or sold in Chhattisgarh. Good cow buffaloes are expensive, their price being calculated at Rs. 12 or Rs. 13 for each seer of milk that they give. Ponies are bred to a small extent, and were also formerly imported from Saugor, but very few are purchased there now, Those who can afford it keep a pony for riding, as carts cannot travel over many portions of the District. Ponies, bullocks, and buffaloes are

also largely used for pack-carriage. Goats and sheep are kept for food and for the manufacture of *ghi*.

The maximum area irrigated is about 6,000 acres, of which 2,500 are under rice, and the remainder devoted to garden crops, sugar-cane, and a little wheat and barley. There are about 2,500 wells and 134 tanks. The embanked wheat-fields, which cover about 310 square miles, are, however, practically irrigated, and the crops grown in them are very seldom affected by deficiency of rainfall.

The total area of Government forests is 346 square miles, or 9 per cent, of the District area. The forests are scattered in small patches all over the hilly tract east of the railway along the length of the District, while to the west lies one important block in the Murwāra tahvīl, and a few smaller ones. The sāl-tree (Shorea robusta) occupies a portion of the Murwāra forests. The remainder are of the type familiar on the dry hills of Central India- low scrub jungle, usually open and composed of a large variety of species, few of which, however, yield timber or attain large dimensions. Teak is found in places mixed with other species. Among the more important minor products may be mentioned the mahuā flower, myrabolams, and honey. The forest revenue in 1903-4 was Rs. 42,000.

Iron ores, some of which are very rich, occur in several parts of the District, particularly in the Sihorā tahsīl. The iron is smelted in small

furnaces by Agarias, and sold at Rs. 2-8 a maund. Owing to the imperfect methods of refining, however, so per cent, is lost in working it up. The non is of excellent quality, as it is smelted with charcoal, but it is believed that the deposits are not sufficiently large to repay the expenditure of capital on fromworks. Steel is made with manganese by similar methods at Johli in Sihorā, and used locally for agricultural implements. Manganese ores occur at Gosalbur, Sihorā, Khitolā, and other villages, and mining leases have been taken out. Copper ores and argentiferous galena with traces of gold occur at Sleemanabad, and a mining lease has been obtained by a barrister of Jubbulpore. The limestone deposits of Murwara are worked by a number of capitalists, European and native. The aggregate sales of time in 1904 were 50,000 tons, valued at nearly 5 lakhs. About 2,500 labourers are employed, principally Kols and Gonds. The largest manufacturers of lime also own a fuller's earth quarry, the produce of which is sold to paper-mills. Agate pebbles are abundant in the detritus formed by the Deccan trap, and are worked up into various articles of ornament by the local lapidaries. The true or Sulaimani onyx is said to be sent to Cambas from Jubbulpore. There are a number of sandstone quarries in or near Murwara, from which excellent stone is obtained and exported in the shape of posts and slabs. Chips of limestone murble are exported for the facing of walls,

Cotton hand-weaving was formerly an important industry, but has been reduced by the competition of the mills. The principal centres are Garhā and Majholt. The coloured sārīs generally worn by women are still woven by hand. The best communications. cloths and carpets are dyed after being woven, āl or Indian madder being used for these heavy cloths, as the foreign dyes change colour and are partly fugitive. Bijerāghogarh in Murwāra and Ramkhiriā and Indrāna in Sihorā are the principal dyeing centres. Brass and copper vessels are made at Jubbulpore, by both hammering and casting, and cups and ornaments at Panāgar. Glass bangles and the round glass flasks in which Ganges water is carried are produced at Katangl. At Tewar near the Marble Rocks various kinds of vessels of white sandstone, marble images, agate studs, and other small ornaments are made by the caste of Larhiās or stone-cutters.

The Gokuldas Spinning and Weaving Mills, with 288 looms and 15.264 spindles, produced 10.200 cwt, of varn and 4.708 cwt, of cloth The mills are being enlarged by the addition of 100 looms. Only the coarser counts of varn are woven, and the produce is sold locally. Large pottery works, started in 1802, turn out roofing and flooring tiles, bricks, and stoneware pipes, which are sold in the local market and also exported. The raw material is obtained from the large deposits of white clay formed from the limestone rocks, and the value of the produce in 1904 was 2 laklis. A brewery, which was opened in 1897, sends beer to all parts of India. In connexion with the brewery, there is an ice factory which supplies the local demand. these factories and also a gun-carriage factory and an oil- and flour-mill are situated at jubbulpore. In Murwara eight small flour-mills have been started, being worked by water power and owned by natives; and there are also paint- and oil-mills, worked by water power, in which chocolate-coloured paint is produced from yellow other and red oxide of iron. There are six printing presses in the city of Jubbulpore.

Wheat and oilseeds are the principal exports. Hemp (san) is sent to both Calcutta and Bombay for export to England. Considerable quantities of ght and forest produce are dispatched from Jubbulpore, but most of this comes from Sconi and Mandlä. Hides and horns, bones, and dried beef are also largely exported. Other exports are the manufactured and mineral products already mentioned. Salt comes principally from the Sämbhar Lake and also from Bombay and Gujarāt, sugar from the Mauritius, and gur (unrefined sugar) from Bihār. Kerosene oil is now universally used for lighting, vegetable oil being quite unable to compete with it. Cotton cloth is imported from Ahmadābād and also from the Berār and Nāgpur mills, as the local mills cannot weave cloth of any fineness. There is a considerable trade in aniline dyes, and synthetic indigo has begun to find a market within the last

few years. Transparent glass bangles are now brought in large numbers from Germany. A European firm, dealing in oilseeds, wheat, and myrabolams, has most of the export trade. The rest of the traffic is managed by Bhātias from Bombay and Cutchī Muhammadans. Mārwāris act only as local brokers, and do not export grain by rail. The leading weekly markets are at Panāgar, Barelā, Shahpurā, Pātan, Katangī, Bilherī, Silondī, and Umariā. Numerous religious fairs are held at the different sacred places on the Narbadā and elsewhere, but trade is important only at those of Bherāghāt and Kūmbhi.

The main line of railway from Bombay to Calcutta runs through the centre of the District with a length of 93 miles, and nine stations are situated within its limits, including the three towns of Jubbulpore, Sihorā, and Murwāra. At Jubbulpore the Great Indian Peninsula Railway meets the East Indian. From Katnī junction the Bīna-Katnī connexion of the Great Indian Peninsula Railway branches off to Damoh and Saugor in the west, and a branch of the Bengal-Nāgpur Railway leads east to Bilāspur. The Sātpurā extension of the Bengal-Nāgpur Railway, which connects Jubbulpore with Gondiā station, situated about 80 miles from Nāgpur towards Calcutta, has recently been completed.

From Jubbulpore a number of metalled roads lead to outlying Districts which, before the opening of the recently constructed railway lines, were important trade and military routes. These are the Jubbulpore-Damoh (63 miles), the Jubbulpore Seoni (86 miles), and the Jubbulpore-Mandia (58 miles) roads. Other roads lead from Jubbulpore to Patan, Deorg and Dindorf in Mandla, of which the two latter are partly metalled, while the Patan road is unmetalled. From the south-west of the District trade goes to Shahpura station. The principal roads from Sihorā are towards Pātan and Maiholī, and are unmetalled. A considerable amount of trade comes to Katni from the Native States to the north, chiefly by roads from Bijeraghogarh, from Rewah through Barhi, and from Damoh. The communications in the south of the District are excellent, but those in the north are not so advanced, apart from the railways. The total length of metalled roads is 108 miles and of unmetalled roads 301 miles, and the expenditure on maintenance in 1903-4 was Rs. 67,000. More than 200 miles of the more important roads are managed by the Public Works department, and the remainder by the District council. There are avenues of trees on 74 miles.

Failures of crops occurred in Jubbulpore District from excessive winter rain in 1818-9 and from deficiency of rainfall in 1833-4.

Famine. causing considerable distress. In 1868-9, the year of the Bundelkhand famine, the Murwāra takstl was severely affected, and a large decrease of population was shown at the

following Census. The District then continued prosperous until 1893-4, when for three years in succession the spring crops were spoilt by excessive winter rain. The poorer classes were distressed in 1896, and some relief was necessary, while in the following year Jubbulpore was very severely affected. Nearly 100,000 persons, or 13 per cent. of the population, were in receipt of relief in March, 1897, and the total expenditure was 19 lakhs. After two favourable seasons followed the famine of 1899-1900. The failure of crops in this was, if anything, more extensive than in 1897; but the people were in a better condition to meet it, and owing to the generous administration of relief the effect of the famine was far less marked. The numbers on relief reached 65,000, or nearly 9 per cent. of the population, in July, 1900, and the total expenditure was 9 lakhs. A number of tanks were constructed or repaired by Government agency and some field embankments were made, besides various improvements in communications.

The Deputy-Commissioner is aided by four Assistant and Extra Assistant Commissioners. For administrative purposes the District is divided into three tahstls, each of which has a tahstldär, with naib-tahstldärs at Sihorā and Murwarā. Administration, Jubbulpore is the head-quarters of an Executive Engineer, who is in charge of Jubbulpore, Mandla, and Seonī Districts, of an Executive Engineer for irrigation, and of a Forest officer.

The civil judicial staff consists of a District and three Subordinate Judges, a Small Cause Court Judge for Jubbulpore city, and a Munsif for the Jubbulpore tahsil. The Divisional and Sessions Judge of the Jubbulpore Division has jurisdiction in the District. Crime is light, but the District is sometimes visited by professional coiners or dacoits from the neighbouring Native States.

Neither the Gond nor the Maratha government had any fixed principles for the realization of revenue, nor were any rights in land recognized. The policy of the Marathas was directed merely to the extortion of as much money as possible. Rents were commonly collected from the ryots direct, and when farming was practised short leases only were granted on very high rents, which sometimes amounted to more than the village 'assets.' For some years after the cession in 1818 short-term settlements were made, the demand being fixed on the first occasion at 4-18 lakhs, subsequently rising in 1825 to 6-41 lakhs. This assessment proved, however, too heavy, and in 1835 a twenty years' settlement was made and the revenue fixed at 4.76 lakhs. Under it the District prospered greatly. Revision was postponed for some years owing to the Mutiny; but in 1863 a thirty years' settlement was concluded, at which the revenue was raised to 5.60 lakhs, including Rs. 60,000 assessed on the subsequently included estate of Bijeraghogath. During the currency of this settlement, which almost coinROCKS, is 13 miles distant. Jubbulpore is well laid out, with broad and regular streets, and numerous tanks and gardens have been constructed in the environs. Its elevation is 1.306 feet above sea-level. The climate is comparatively cool, and Jubbulpore is generally considered the most desirable of the plain stations in the Central Provinces. of which it ranks as the second city. It is steadily increasing in importance, the population at the last four enumerations having been: (1872) 55,185, (1881) 75,075, (1801) 84,481, and (1001) 00.316. Of the total in 1901, 63,997 were Hindus, 21,036 Muhammadans, and 3.412 Christians, of whom 2.000 were Europeans and Eurasians. Four miles to the west of the city, and included in the municipality. is Garba, once the capital of the Good dynasty of Garba-Mandla. whose ancient keep known as the Madan Mahal, still crowns a low granite range with the old town lying beneath it. This was constructed about 1100 by Madan Singh, and 15 now in ruins. It is a small building of no architectural pretensions, and its only interest lies in its picturesque position, perched upon the top of the hill on a huge boulder of rock. In the sixteenth century the capital was removed to Mandla, and the importance of Garba declined. Of the history of Jubbulgore itself nothing is known until it was selected by the Marathas as their head quarters on the annexation of Mandla in 1781. In an old inscription now in the Nagpur Museum the name is given as Javalipama. Inhbulpore subsequently became the head quarters of the Commissioner of the Saugor and Nerbudda Territories, which were merged in the Central Provinces in 1861

A municipality was constituted in 1864. The municipal receipts and expenditure during the decade ending 1901 averaged Rs. 2,62,000 and Rs. 2,57,000 respectively. In 1903, 4 the income was Rs. 3,54,000. the main sources being octroi (Rs. 1,65,000) and water rate (Rs. 20,000). and the total expenditure was Rs. 2, 28,000, including refunds (Rs. 50,000), conservancy (Rs. 34,000), repayment of loans (Rs. 28,000). general administration and collection of taxes (Rs. 21,000), and watersupply (Rs. 14,000). Previous to the construction of the existing water works, the town depended for its supply on a number of unreliable wells, and it was not uncommon for water to be retailed in the hot season at one or two annas a pot. The water-works were opened in 1883, and extended to the cantonment and the civil station in 1804. They consist of a reservoir constructed on the Khandari stream, about seven nules from the city. The masonry embankment is 1,680 feet long and 66 feet high, and the catchment area of the reservoir is 54 square miles. Water is conveyed to the city in pipes by gravitation. The total cost of the works was 9-4 lakhs, including the extension. The effect of the constant intake of water in a city whose situation does not provide good natural drainage has, however, been to render the ground somewhat sodden, and a drainage scheme to counteract this tendency is under consideration.

Jubbulpore includes a cantonment with a population of 13,157. The receipts and expenditure of the cantonment fund during the decade ending 1901 averaged about Rs. 25,000, and in 1903-4 they amounted to Rs. 32,000. The ordinary garrison has hitherto consisted of one battalion of British and one of Native infantry, a squadron of Native cavalry, and two field batteries; but it is proposed to increase it. There are also two companies of Railway Volunteers, and one of the Nagpur Volunteer Rifles. Jubbulpore is the head-quarters of a general officer, and the garrison is included in the Mhow division. A central gun-carriage factory for India was opened in 1905. A Government grass farm, combined with a nulitary dairy, has also been established.

Jubbulpore is an important commercial and industrial town. It receives the grain and other produce of the greater part of Jubbulpore District, and of portions of Seoni and Mandla. The factories include spinning and weaving mills, pottery works, a brewery and ice factory, oil- and flour-mills, the workshops of the Great Indian Peninsula Railway, and four hydraulic presses for san-hemp. The local handicrafts are cloth-weaving, brass-working, stone-cutting, and the manufacture of images from marble, and of studs, buttons, and other ornaments from agate pebbles. Till lately a considerable tent-making industry was carried on, at first by the Thags, who were kept in confinement here, and their descendants, and afterwards at a Reformatory school; but this has now ceased. There are six printing presses, with English, Hindi, and Urdii type: and an English weekly and a Hindii newspaper are published.

Jubbulgore is the head-quarters not only of the ordinary District staff, but of the Commissioner and Divisional Judge of the Jubbulpore Division, a Conservator of Forests, a Superintending and an Irrigation Engineer, the Superintendent of Telegraphs for the Central Provinces. and an Inspector of Schools. One of the three Central jails and one of the two lunatic asylums in the Province are located here. industries carried on in the Central jail include the weaving of cloth for pillow and mattress cases, and of net money-bags, the manufacture of wire netting for local use, and of thick bedding cloth and Scotch and Kidderminster carpets for sale. Fifty-five looms were employed in making carpets in 1903-4. The Church Missionary Society, the Zanāna Mission, and the Roman Catholic, Wesleyan, and American Methodist Churches have mission stations in Jubbulpore, and support several orphanages and schools. A Government Arts college affiliated to the Allahabad University, with law and engineering classes attached to it, had 114 students in 1903-4. There are also three high schools, one maintained by the Church Missionary Society with 79 pupils, VOL KIV.

one by a Muhammadan society with 8 pupils, and one by a Hindu society with 87 pupils, training institutions for male and female teachers, and 53 other schools. Schools for European boys and girls are maintained by the Church Missionary Society and the Roman Catholic Mission, with the assistance of Government grants. There is also a Reformatory, to which youthful offenders from the whole Province are sent and taught different handicrafts. It contains 125 inmates, and is the successor of the old school for the children of Thags arrested in the Central Provinces. Jubbulpore contains a general hospital, the Lady Elgin Hospital for women, three dispensaries, and a veterinary dispensary.

Jubo. - Town in the State of Khairpur, Sind, Bombay, situated in 26° 22′ N. and 69° 34′ E. Population (1901), 6,924. The inhabitants deal chiefly in goats and sheep; and rough carpets of goat's hair are also manufactured. Jubo contains the ruins of a fort built by the

late Mir.

Jūkal.—'Crown' sub-tāluk of the Atrāf i-balda District, Hyderābād State, lying to the south west of Nizāmābād District, with an area of 87 square miles. Its population in 1901 was 15,789, compared with 10,883 in 1891. The sub-tāluk contains 22 villages, and Jūkal (3,350) is the head-quarters. The land revenue in 1901 was Rs. 66,000. The soil is mostly regar or black cotton soil.

Juliundur Division (falandhar).—A Division of the Punjab. tretching from the borders of Tibet on the north east across the valleys of the Upper Beas and Sutlei to the borders of the Bikaner desert on the south-west. It lies between 29° 55' and 32° 59' N. and 73' 52' and 78' 42' E. The Commissioner's head-quarters are at the town of Jullandur. The Division comprises all varieties of scene and soil, from the tumbled masses of the Outer Himālayas, in Kulū and Kangra, to the fertile plains of Jullundur or the arid tracts of Ferozepore The population increased from 3.787,945 in 1881 to 4,217,670 in 1891, and to 4,306,662 in 1901. The area is 19,410 square miles. and the density of population 222 persons per square mile, as compared with 200 for the Province as a whole. In 1901 Hindus formed 52 per cent, of the population (2,242,490), while other religions included 1,457,193 Muhammadans, 591,437 Sikhs, 5,562 Jains, 4.176 Buddhists, 33 Parsis, and 5.766 Christians (of whom 1.910 were natives). The Division contains five Districts, as shown in the table on the next page.

Of these, Kängra hies entirely in the hills, sloping away to the submontane District of Hoshiārpui. The rest lie in the plains. The Division contains 6,415 villages and 37 towns, of which the following had in 1901 a population exceeding 20,000: JULLUNDUR (67,735), Ferozepore (40,341), and Ludhiāna (48,649). Besides the adminis-

| Dis | lrict. | | | Area in square miles. | Population, 1901. | Land revenue and cesses, 1903-4, in thousands of rapecs. | |
|------------|--------|----|-----|-----------------------|----------------------|--|--|
| Kängra . | | | | 9,978 | 768,124 | 10,73 | |
| Hoshiarpur | - | | | 2,244 | 989,782 | 16,41 | |
| Jullundur | | | | 1,431 | 917,587 | 17,75 | |
| Ludhiāna | | | | 1,455 | 673,097 | 12,42 | |
| Ferozepore | | - | • | 4,302 | 958,072 | 14,27 | |
| 1 | | To | tal | 19,410 | 4,306,662 | 71,58 | |

trative charge of these British Districts, the Commissioner has political control over five Native States, which are shown below, with their area and population:

| | Sta | Le, | | Area in quare miks | | Population, | | |
|-------------------|----------|-----|----|--------------------|-----------------------------------|-------------|---|---------|
| Mai Mäl Suk | er Kotla | : | | | 630 1,200 167 420 642 | , 1 | 314,351 174,045 77,506 54,676 124,913 | 1 |
| 1 | i | | To | gal | 3,059 | ı | | 745.490 |

The total population of these Native States increased from 620,203 in 1881 to 709,811 in 1891, and 745,490 in 1901, of whom 52½ per cent. were Hindus (392,148), while other religions included 245,403 Muhammadans, 105,304 Sikhs, 1,993 Jains, 573 Buddhists, 4 Pārsīs, and 65 Christians. The density of the population is 244 persons per square mile. The States contain 1,053 villages and 12 towns, of which Māler Kotla (21,122) alone exceeds 20,000 inhabitants.

Ludhiāna, Ferozepore, and Jullundur are the only towns of commercial importance, while Kāngra and Jawāla Mukhi are famous for their religious associations. The Division practically corresponds to the ancient Hindu kingdom of Trigartta. Kāngra fort has been many times besieged, while more recent battle-fields are those of Mudki, Ferozeshāh, Aliwāl, and Sobraon in the first Sikh War (1845).

Juliundur District (Jālandhar).—District in the Juliundur Division, Punjab, lying between 30° 56′ and 31° 37′ N. and 75° 5′ and 76° 16′ E., with an area of 1,431 square miles. It occupies the southern part of the doāb (called the Bist Jullundur Doāb), or country between the Beās and Sutlej. The latter river forms its southern border, separating it from Ludhiāna and Ferozepore, and in shape the District is an irregular triangle with its base on that river. The State of Kapūrthala separates it on the west from the Beās and its confluence with the Sutlej. Along its north-east border lies the

District of Hoshiarpur; and in the centre of this portion, between the Jullundur and Nawashahr tahsils, is a detached tract of Kapurthala territory which forms the Phagwara tahsil of that State. The valley of

the Sutlei is marked by a high, well-defined bank. **Physical** North of this lies a plateau whose highest point. at ARDECTS. Rāhon near the eastern corner of the District. is Thence it slopes gradually westwards 1.012 feet above sea-level. towards the Beas. No hill or rock breaks the level of this plateau. which lies entirely within the zone of rich cultivable soil that skirts the foot of the Himalayas, and was regarded by the Sikhs as the garden of the Puniab. At places a few acres are covered with sand : but. excent in these rare spots, one vast sheet of luxuriant and diverse vegetation spreads over the plain from end to end. South of the high bank of the Sutlei lies the Bet or khādar, a strip of alluvial soil annually fertilized by deposits of silt from that river, although the opening of the Sirhind Canal has greatly reduced its flow, and it now runs almost dry for eight months in the year. The only important stream is the East or White Bein, which, using east of Rahon and running along the Hoshiarpur border, traverses the Phagwara tahsil of Kapurthala State, and thence meanders westwards across the District till it falls into the Sutlei near its junction with the Beas. In its earlier course it receives several torrents from the Siwālik Hills in Hoshiarpur. These bring down deposits of sand, which are doing considerable damage to the cultivated hands on its eastern bank.

The District is situated entirely in the alluvium, and contains nothing of geological interest. Cultivation has advanced to such a point that there is little in the way of natural vegetation beyond the weeds that come up with the crops throughout North-west India. Trees are almost always planted; and, owing to the proximity of the Himālayas, several kinds succeed very well, among them the mango and ber (Zizyphus Jujuba). The river banks are in places fringed with a dense growth of high grasses, as in Ferozepore and adjoining Districts.

Wolves are seen but very rarely, and towards Kapürthala antelope, Mlgai, and hares are found. Field-rats abound, and do no small amount of damage to the crops.

The climate is, for the plains, temperate. In the hot season, with the exception of June and July, the heat is not excessive; in the cold season frosts are light, and confined to January and February. The average mean temperature of January is 56°, and of June 93°. The mortality varies very much with the rainfall, owing to the prevalence of malaria in rainy years. Plague made its first appearance in the Punjab in the village of Khatkar Kalān in this District in 1897.

Owing to the nearness of the hills, the rainfall is fairly constant.

The annual average varies from 24 inches at Phillaur to 27 at Jullundur, 22 inches falling in the summer months and only 5 in the winter. During the ten years ending 1903 the heaviest fall was 60 inches at Nawāshahr in 1900-1, and the lightest 11 inches, in 1899-1900, at Jullundur. There were disastrous floods in 1875 and 1878, owing to the railway embankment giving insufficient passage to the floods caused by the unusually heavy rains.

Early legends attribute the name of the doab to the Daitya king Illandhara, who was overwhelmed by Siva under a pile of mountains, His mouth, the legend says, was at JAWALA MUKHI, History. his feet at Multan, where in ancient times the Heas and Sutlei met, and his back under the upper part of the Jullundur Doab, including the present District. The earliest mention of Jullundur occurs in the accounts of the Buddhist council held at Kuvana, near that city, early in the Christian era, under the auspices of Kanishka. When visited in the seventh century by Hiuen Tsiang, it was the capital of the Raiput kingdom of Trigartta, which also included the modern Districts of Hoshiarour and Kangra and the States of Chamba. Mandi, and Suket. Towards the end of the ninth century the Raiatarangini records the defeat of Prithwi Chandra, Raja of Trigartta, by Sankara Chandra of Kashmir. The town was taken by Ibrāhim Shāh Ghori about 1088; and from that time the country appears to have remained under Muhammadan rule, the Jullundur Doab being generally attached to the province of Lahore. During the Saivid dynasty (1414-51), however, the authority of Delhi was but weakly maintained: and the doab became the scene of numerous insurrectionary movements, and especially of the long campaign of the Khokhar chief Jasrath against the ruling power. Near Jullundur the Mughal forces concentrated in 1555, when Humāyūn returned to do battle for his kingdom, and the neighbourhood was the scene of Bairam's defeat by the imperial forces in 1560. Adina Beg, the last and most famous of the governors of Jullundur, played an important part during the downfall of Muhammadan power in the Punjab, holding the balance between the Delhi emperor, the Sikhs, and Ahmad Shah Durrani, Both Nürmahal and Kartarpur were sacked by Ahmad Shah, and to avenge the desecration of the latter place the Sikhs burnt Jullundur in 1757.

The Sikh revolt against the Mughal power early found strong support in the District, and a number of petty chieftains rapidly established themselves by force of arms as independent rulers throughout the doāb. In 1766 the town of Jullundur fell into the hands of the Faizullahpuria misl, or confederacy, then led by Khushhāl Singh. His son and successor, Budh Singh, built a masonry fort in the town, while several other leaders fortified themselves in its suburbs. Phillaur was seized

by Budh Singh, who made it the capital of a considerable State: and the Muhammadan Rainuts of Nakodar (on whom the town had been conferred in jarir during the reign of lahangir) were early ousted by Sardar Tara Singh, Ghaiba, who built a fort, and made himself master of the surrounding territory. But meanwhile Ranift Singh was consolidating his power in the south: Phillaur fell into his hands in 1807. and he converted the sarai into a fort to command the passage of the Sutlei: and in 1811 Diwan Mohkam Chand was dispatched to annex the Faizullahouria dominions in the Iullundur Doab. Budh Singh fled across the Sutlei: and though his troops offered some resistance to the invader, the Mahārāiā successfully established his authority in the autumn of that year. Thenceforth Jullundur was the capital of the Sikh possessions in the doab till British annexation. Nakodar was seized in 1816, the petty Sardars were gradually ousted from their estates, and the whole country brought under the direct management of the Sikh governors. Here, as elsewhere, their fiscal administration proved very oppressive, especially under Shaikh Ghulam Muhi-ud-din, the last official appointed from the court of Lahore, a tyrannical ruler, who exacted irregular taxes. He made over the tract to his son. Imamud-din, but neither resided regularly in the doab, their charge being entrusted to lieutenants, the best known of whom were Sandhe Khan in Hoshiarour and Karim Bakhsh in Jullundur.

At the close of the first Sikh War the British annexed the whole of the Jullundur Doab, and it became the Commissionership of the Trans-Sutlej States. For two years the administration was directly under the Supreme Government, but in 1848 the Commissioner became subordinate to the Resident at Labore, and in the succeeding year, when events forced on the annexation of the Punjab, the administration of the doab was assimilated to the general system. The Commissioner's head-quarters were fixed at Jullundur, and the three Districts of Jullundur, Hoshiārpur, and Kāngra were created. The fort at Phillaur was occupied as an artillery magazine, and cantonments formed there and at Nakodai, which continued to be occupied till 1857 and 1854 respectively.

In 1857 the native troops stationed at Jullundur and Phillaur mutinied and marched off to join the rebel forces at Delhi; the authorities were, however, not altogether unprepared, and though the mutineers succeeded in escaping unmolested, they were prevented from doing serious damage. Rājā Randhir Singh of Kapūrthala rendered invaluable assistance at this time, both in supplying troops and, by the exercise of his personal influence, in helping to preserve the peace of the doit.

The tombs at NAKODAR and Nur Jahān's sarai at NŪRMAHAL are the chief remains of antiquarian interest.

The population of the District at the last four enumerations was: (1868) 794,418, (1881) 789,555, (1891) 907,583, and (1901) 917,587, dwelling in 10 towns and 1,216 villages. It increased by 1-1 per cent. during the last decade, the increase being greatest in the Jullundur tahsil and least in Phillaur. The density of population is the highest in the Province. The District is divided into the four tahsils of Jullundur, Nawashahr, Phillaur, and Nakodar, the head-quarters of each being at the place from which it is named. The chief towns are Jullundur, the head-quarters of the District, and the municipalities of Kartarpur, Alawalpur.

PHILLAUR, NÜRMAHAL, RÄHON, NAWÄSHAHR, BANGA, and NAKODAR.

The following table shows the chief statistics of population in

| Taksil | : | Arus in square miles | Towns | mber of | Population. | Population per | Percentage of variation in population be- tween 1891 and 1901. | Number of persons able to read and write. |
|-------------|-----|-------------------------|-------|---------|-------------|----------------|--|--|
| Juliundar . | | 391 | 3 | 400 | 305,976 | 7824 | + 3.6 | 14.200 |
| Nawāshahr | . 1 | 299 | 3 | 274 | 196,339 | 656.7 | 4:5 | 7,820 |
| l'hillaur . | ٠, | 298 | 3 | 222 | 192,860 | 647 2 | 4 1.7 | 6,285 |
| Vakodar . | , | 371 | 1 | 311 | 222,412 | 599.5 | + 2-5 | 4,789 |
| | | - | - | | | | | |
| District to | (a) | 1,431 . | 10 | 1,216 | 917.587 | 641 2 | + 1.1 | 33,103 |
| | | | | | | | | |

NOTE - The figures for the areas of tahails are taken from the revenue returns. The total District area is that given in the Census Rebort.

Muhammadans number 421,011, or more than 45 per cent. of the total; Hindus, 368.051, or 40 per cent. and Sikhs, 125.817, or nearly 14 per cent. Punjabi is spoken throughout the District.

By far the most numerous caste are the lats or lats, who number 185,000, or 20 per cent, of the total, and own half the villages. 185 clans are enumerated in the District. Some of these claim a Raiput origin; others have no traditions of being anything but Jats. Taken as a whole, they are an honest, industrious, sturdy, and vigorous folk, addicted to no form of serious crime, except female infanticide. The Muhammadan lats are inferior to the Hindu and Sikh. The Arains (143,000) come next, comprising one-seventh of the total. They are entirely Muhammadans, and are a peaceable people without the sturdy spirit of the Jats, but quite as efficient cultivators. The Rājputs (50,000) come third. More than four-fifths are Muhammadans, but they nearly all preserve Hindu customs. They formerly held a more important position in the District than they do now, and carefully maintain the traditions of their former greatness; and, despising work as beneath their dignity, they are very inferior as agriculturists to the Jats. The Khokhars are entirely Muhammadan

they are often considered Raiputs, but the claim is not generally accepted, and they do not intermarry with Raiputs. The Awans (12,000) also are all Muhammadans. They claim to have come from Arabia, but their observance of Hindu usages marks them as converts to Islam. Other agricultural tribes worthy of mention are Sainis (16,000), who are clever market-gardeners: Kambohs (6,000), mainly Sikhs; and Guiars (20.000), who are found everywhere. The Khattris (26.000) are the most important of the commercial tribes, the Banias numbering only 6.000. Of menial tribes the most important are the Chamārs (leather-workers, 96,000), ('hūhrās (scavengers, 11,000), Kumhārs (potters, 15,000). Lohārs (blacksmiths, 15,000). Mochīs (cohblers, 20,000), Tarkhans (carpenters, 12,000, many of whom are landowners), lhinwars (watermen, 20,000), lulahas (weavers, 16,000). Nais (barbers, 15,000). Chlumbas and Dhobis (washermen, 12,000), and Telis (oil pressers, 14,000). Brahmans number 12,000. Hall the population is agricultural and one-fourth industrial.

The Jullundur Mission is one of the stations belonging to the American Presbyterian Board of Foreign Missions. It was established in 1847. In 1901 the District contained 276 native Christians.

Lying as Jullundur does close to the Outer Himālayas, an absolute failure of the rains is almost unknown; and apart from the protection

Agriculture. afforded by the numerous wells, the soil is sufficiently charged with moisture to resist anything but absolute drought. More than 40 per cent, of the cultivated area is a good alluvial loam; patches of clay soil, amounting in all to 13 per cent, of the cultivated area, are found all over the District, while 24 per cent, is sandy soil, of which half is found in the Jullundur tahsīl. A small proportion is uncultivable, being covered by sandhills.

The District is held almost entirely by communities of peasant proprietors, large estates covering only about 37 square miles.

The area for which details are available from the revenue records of 1903-4 is 1,357 square miles, as shown below

| /ahsii | ! | | 1 otal | Cultivated | lingated. | Cultivable waste, |
|---|-------|------|--------------------------|--------------------------|--------------------------|----------------------|
| Jullundur Nawäshahr Phillaur Nakodar | | : | 391 304 291 371 | 337 217 244 195 | 104 146 111 118 | 43 43 19 45 |
| | 1 | otal | 1,357 | 1.093 | 479 | 110 |

The chief crop of the spring harvest is wheat, which occupied 430 square miles in 1903-4; gram covered 177 square miles; and barley only 36 square miles. Maize is the staple product of the

autumn harvest, occupying 149 square miles, while pulses covered 121. Sugar-cane, which occupied 49 square miles, is commercially of the greatest importance to the cultivator, as he looks to this crop to pay the whole or the greater part of the revenue. Very little great millet is grown (14 square miles), and practically no spiked millet; cotton covered 28 square miles, and rice 3,188 acres.

The cultivated area increased by only 800 acres during the ten years ending 1001, and hardly any further increase can be anticipated. There has however, been a considerable development of well-sinking. more than 8.000 wells having been constructed since the settlement of 1880-s. Practically no cultivable land is now left untilled; and the pressure on the soil, which in 1901 was, excluding the urban population, 718 persons per cultivated square mile, can only be met by emigration. The District has already sent numbers of its sons to the Chenab Colony, to the Jamrao Canal in Sind, to Australia and East Africa: and many are in civil or military employment in other parts of India. The remittances of these emigrants add enormously to the natural resources of the District, and the greater portion of the Government revenue collected in it is required by the post offices to enable them to cash money orders issued on them. Loans under the Land Improvement Loans Act for the construction of wells are popular and faithfully applied: during the five years ending 1004 more than Rs. 54.000 was advanced for this purpose. Nothing has been done in the way of improving the quality of the crops grown.

Jullundur is not well adapted for breeding cattle, and it is estimated that for ploughing and working the wells no less than 10,000 bullocks per annum have to be imported. These are generally obtained at the Amritsar, Sirsa, and Hissār fairs, and from Patiāla and Ferozepore. Although some places in the Jullundur Doāb are mentioned in the Ain-1-1kbari as tamous for a breed of hoises, the ponies are not now specially valuable. One horse and four donkey stallions are kept by the District board. There are very few camels, and sheep and goats are not important. The country is so fully cultivated that little ground for grazing is left, except along the Sutlej and in places near the Bein. Large numbers of cattle are driven from a distance to these favoured spots, and considerable sums are levied in grazing fees by the owners of the land.

Of the total area cultivated in 1903-4, 479 square miles, or 44 per cent., were classed as irrigated. Of this area, 477 square miles were irrigated from wells, and 1,455 acres from streams and tanks. In addition, 56 square miles, or 5 per cent., were subject to inundation from the Sutlej. Wells are the mainstay of the District; and there are 28,609 masonry wells worked by cattle, chiefly on the rope-and-bucket system, besides 464 unbricked wells, water-lifts, and lever wells.

The Persian wheel is found where the soil is sandy and water near the surface.

The District contains two small plantations 'reserved' under the Forest Act, consisting chiefly of shisham and kikar, and covering 262 acres, with a military Reserve of 885 acres. It is on the whole well wooded, almost every one of the wells which it contains being surrounded by a small coppice; but, as already noticed, waste land is very scarce. Phillaur is the winter head-quarters of the Bashahr Forest division, and a great wood mart, to which quantities of timber are floated down the Sutlej and stored. Much also is brought for sale here from the Beas and the Sirhind Canal.

Kankar is plentiful, the best beds being within a radius of ten miles from Jullundur town. Saltpetre is manufactured from saline earth.

A great deal of cotton-weaving is carried on, the principal products being the coarse cotton cloth which supplies most of the dress of the

people, and coloured strines and checks. communications. quantities of very coarse cotton fabrics (khaddar) are exported to Shikarpur and Sukkur in Sind. Rahon had once a great reputation for a superior cotton longcloth, but the industry is almost extinct. Silk weaving is carried on at Jullundur town, and in 1800 employed 250 looms, the estimated out-turn being valued at 2 lakhs. The gold and silver manufactures are flourishing, but in no way remarkable, and the out-turn is insufficient for local requirements. Besides ornaments, silver wire and gold and silver lace are made. The District has some reputation for carpenter's work, and chairs are made at Kariarpur for the wholesale trade. Brass vessels are manufactured in many parts, the output being valued at Rs. 27,000, of which half is exported. The thin pottery known as 'paper pottery' is made in the District, and glazed and coloured tile-work of unusual excellence is turned out at Jullundur by one man. There are two flour mills at Jullundur town, and attached to one of them is a small iron and brass foundry. The number of factory employés in 1904 W45 73.

The traffic of the District is mainly in agricultural produce. In ordinary years grain is imported from Ludhiāna, Ferozepore, and the Sikh States for export to the hills: other articles of import are piecegoods from Delhi, Bombay, and Calcutta, iron from Ferozepore, Amritsar, and Karāchi, brass and copper vessels from Jagādhri, Amritsar, and Delhi, rice from Kāngra, and salt from the Mayo Mines. Sugar and molasses are largely manufactured to supply the markets of Bikaner, Lahore, the Punjah, and Sind. Wheat, cotton cloth, and silk goods are the other principal exports.

The District is traversed by the main line of the North-Western Railway, and branch lines are contemplated from Jullundur town to

Kapūrthala and Hoshiārpur. It is exceptionally well provided with roads, the total length of metalled roads being 158 miles and of unmetalled roads 337 miles. The most important of the former are the grand trunk road, which traverses the District parallel with the railway, and the road from Jullundur to Hoshiārpur; these, with some minor roads, 62 miles in length in all, are under the Public Works department, the rest being under the District board. The Sutlej is navigable only in the rains; there are twelve ferries.

Jullundur, thanks to the excellence of its soil and the nearness of the hills, is but little liable to drought. None of the famines that have visited the Punjab since annexation has affected the District at all seriously, and it was classed by the Irrigation Commission of 1903 as secure from famine. The area of crops matured in the famine year 1899–1900 amounted to 76 per cent. of the normal.

The District is in charge of a Deputy-Commissioner, aided by three or four Assistant or Extra-Assistant Commissioners. It is divided into four tahsīls, each under a tahsīldār assisted by a naibtahsīldār: Jullundur comprises its northern portion, and Nawāshahr, Phillaur, and Nakodar, which he in that order from cast to west, the southern.

The Deputy-Commissioner as District Magistrate is responsible for criminal justice. Civil judicial work is in charge of a District Judge, and both these officers are subordinate to the Divisional and Sessions Judge of the Jullundur Civil Division, which consists of the District of Jullundur alone. There are six Munsifs, three at head-quarters and one at each outlying fahsil. There are also a Cantonment Magistrate at Jullundur and eight honorary magistrates. The common forms of crime are burglary and theft.

In the revenue system of Akbar the present District formed part of the Duāba Bist Jālandhar, one of the sarkārs of the Lahore Sūbah. The later Mughal emperors soon dropped the cash assessments of Rājā Todar Mal as unprofitably just, and leased clusters of villages to the highest bidder. Under the Sikh confederacies even this remnant of system disappeared, and the ruler took whatever he could get. Ranjīt Singh followed the same principle with a greater show of method, giving large grants of land in jāgār on service tenure, and either leasing the rest to farmers or entrusting the collection of the revenue to kārdārs, who paid him as little as they dared. When in 1846 the doāb came into British possession, a summary settlement was made by John Lawrence. The assessment, which amounted to 13½ lakhs, worked well, and the total demand of the regular settlement (1846-51) was only Rs. 20,000 less. The assessment was again mainly guess-work, the demand of the summary settlement being varied only where circum-

stances suggested an increase or demanded some relief. A revision carried out between 1880 and 1885 resulted in a demand of 15 lakhs. This has been paid very easily ever since, and the District is prosperous and contented. The rates average Rs. 4-10-0 (maximum Rs. 5-8-0, minimum Rs. 3-12-0) on 'wet' land, and Rs. 1-8-0 (maximum Rs. 2-4-0, minimum 12 annas) on 'dry' land. The demand, including cesses, for 1903-4 was 17.8 lakhs. The average size of a proprietary holding is 1.8 acres.

The collections of land revenue alone and of total revenue are shown below, in thousands of rupees:—

| | _ | 1880 I. | | 1890-1. | 1900-1 | 1903-4. | |
|---------------------------------|---|---------|---|---------|----------------|---------|--|
| Land revenue - Total revenue | | 12,24 | - | 13,82 | 14,22 20,42 | 14,05 | |

The District contains nine municipalities: JULLUNDUR, KARTĀRPUR, ALAWAIPUR, PHILLAUR, NŪRMAHAI, RAHON, NAWĀSHAHR, BANGA, and NAKODAR. Outside these, local affairs are managed by the District board, which in 1903-4 had an income of Rs. 1,55,000. The expenditure was Rs. 1,48,600, public works and education being the principal items.

The regular police force consists of 453 of all ranks, including 56 cantonment and 78 municipal police. The Superintendent usually has three inspectors under him. The village watchmen number 1,305. There are twelve police stations, two road-posts, and two outposts. The fort at Phillam was made over in 1891 to the Police Training School and central bureau of the Criminal Identification department. The District jail at head-quarters contains accommodation for 318 prisoners. The chief industries carried on in the jail are the manufacture of paper and hthographic printing.

The District stands nineteenth among the twenty-eight Districts of the Province in respect of the literacy of its population. In 1901 the proportion of literate persons was 3-6 per cent. (6-4 males and 0-3 females). The number of pupils under instruction was 7,624 in 1880-1, 15,102 in 1890-1, 13,191 in 1900-1, and 13,874 in 1903-4. The District possessed in 1903-4 a training school, 6 Anglo-vernacular high schools, 4 Anglo-vernacular and 7 vernacular middle schools, and 3 English and 124 vernacular primary schools for boys, and 23 vernacular primary schools for girls. In addition, there were 7 advanced and 262 elementary (private) schools. The number of girls in the public schools was 699, and in the private schools 941. The most important schools are at Jullundur town. The total expenditure on education in 1003-4 was 1-1 lakhs, the greater part of which was met by Local and Provincial funds.

Besides the Juliundur civil hospital, the District has ten outlying dispensaries. At these institutions 154,504 out-patients and 4,247 inpatients were treated in 1904, and 12,883 operations were performed. The expenditure was Rs. 20,000, contributed in nearly equal shares by District and municipal funds. There is a leper asylum at Dakhni.

The number of successful vaccinations in 1903-4 was 21,801, representing 24 per 1,000 of the population. Vaccination is compulsory in the town of Jullundur.

[H. A. Rose, District Gazetteer (in press); W. E. Purser, Settlement Report (1892).]

Juliundur Tahsil (Jālandhar).—Northern tahsil of Juliundur District, Punjab, lying between 31° 12' and 31° 37' N. and 75° 26' and 75° 49' E., with an area of 391 square miles. The population in 1901 was 305,976, compared with 295,301 in 1891. The head-quarters are at the town of Juliundur (population, 67,735); and it also contains the towns of Kartārpur (10,840) and Alāwalpur (4,423), with 409 villages. The land revenue and cesses in 1903-4 amounted to 4-8 lakhs. The greater part of the tahsil consists of an upland plateau, with a light soil and frequent sand-hillocks, but along the north-eastern border is a belt of extremely fertile land averaging about 6 miles in width.

Juliundur Town (Talandhar) .- Head-quarters of the Division and District of Jullundur, Punjab, situated in 11° 20' N, and 75° 35' E., on the North-Western Railway and grand trunk road. It is distant by rail from Calcutta 1, 180 miles, from Bombay 1,247 miles, and from Karachi 916 miles. Population (1901), including cantonments, 67,735, of whom 24,715 were Hindus, 40,081 Muhammadans, got Sikhs, and 1,543 Christians. Jullundur was, when visited by Hiuen Tsiang, a large city. 2 miles in circuit, the capital of a Raiput kingdom. It was taken by Ibrāhim Shāh of Ghor about 1088. Under the Mughals Juliundur was the capital of a sarkar; it was burnt by the Sikhs in 1757, and captured by the Faizullahpuria confederacy in 1766. Ranilt Singh annexed it in 1811, and in 1846 Jullundur became the head-quarters of the territory acquired by the British after the first Sikh War. town is surrounded by several suburbs known as bastis, the most important of which are Basti Danishmandan (population, 2,770) and Basti Shaikh Darwesh (7,109), founded by Ansāri Shaikhs from Kāniguram in the seventeenth century. The town contains two flour-mills, to one of which is attached a small iron and brass foundry. number of hands employed in 1904 was 73. Silk is also manufactured, and good carpenter's work is turned out. The municipality was created in 1867. The income during the ten years ending 1902-3 averaged Rs. 70,600, and the expenditure Rs. 68,800. In 1903-4 the income amounted to Rs. 84,300, chiefly from octroi; and the expenditure to Rs. 86,900, the main items being public health (Rs. 32,300) and

administration (Rs. 28,600). The chief educational institutions are four Anglo-vernacular high schools, maintained by the municipality, the Presbyterian Mission, and the two rival branches of the Arya Samāj. There is also a civil hospital.

The cantonment, established in 1846, lies 4 miles to the south-east of the town. Population (1901), 13,280. The garrison usually consists of two batteries of field artillery, one battalion of British infantry, one regiment of Native cavalry, and a battalion of Native infantry, with a regimental dépôt. The income and expenditure from cantonment funds during the ten years ending 1902-3 averaged Rs. 40,000 and Rs. 41,000 respectively. There is an aided Anglo-vernacular high school.

Jumkha. Petty State in Rewa Kantha, Bombay.

Jummoo. Province and town in Kashmir State. See Kashmir and Jammu and Jammu Town.

Jumpa (Yamuna : the Diamouna of Ptolemy, Jomanes of Pliny, and Johanes of Arrian).-A great river of Northern India. Rising in the Tehri State (31' 1' N., 78' 27' E.), eight miles west of the lofty mountain Bandarpünch (20,741 feet), it flows past the sacred shrine of Jampotri, and winds through the Outer Himālayas for 80 miles. receiving a few small streams. At the point where it passes into the Dun, the valley between the Himālayas and the Siwāliks, it receives the Tons, which is there the larger stream. Its course now runs southwest for 22 miles, dividing the Kiarda Dun (Punjab) from Dehra Dun (United Provinces); two large affluents, the Giri from Sirmur on the west and the Asan from Dehra on the cast, join it here. The Jumpa pierces the Siwāliks of unles from its source, at Khārā, and divides Ambāla and Karnāl Districts in the Punjab from Sahāranpur and Muzaffarnagar in the United Provinces. It is a large river at Faizābād. where it gives off the Western and Eastern Junna Canals. Near Bidhault in Muzaffarnagar it turns due south, and runs in that direction for 80 miles, dividing Meerut District from the Punjab, till it reaches Delhi. Ten miles below Delhi it gives off the AGRA CANAL from its western bank at Okhla. It then turns south-east for 27 miles to Dankaur, when it again resumes a southerly course. In this portion it receives on the cast the Kotha Nadi and the HINDAN, and on the west the Sabi Nadi. Below Delhi the river forms the boundary between Gurgaon District in the Punjab and Bulandshahr and Aligarh Districts in the United Provinces. It then enters Muttra and, crossing it turns east till the borders of Agra are reached. Throughout its course in this District, where it receives the Banganga, and also in Etawah, it winds in a remarkable manner, its bed lying between high banks which are furrowed by steep ravines. Just before Ialaun District is reached the great river ('HAMBAI, from Rajputana joins it; and the Jumna then divides the three Districts of Cawnpore, Fatehpur, and Allahābād from

Jālaun, Hamīrpur, and Bāndā. In Cawnpore District the Sengar, and in Fatehpur the Non and Rind, flow into it; close to Hamīrpur it receives the Betwā, and in Bāndā District the Ken. It finally falls into the Ganges below Allahābād, 860 miles from its source.

The lumna, after issuing from the hills, has a longer course in the United Provinces than the Ganges; but it is not so large or important a river, and does not carry as much water as is required by the canals taken from it. The supply is therefore increased from the Ganges by means of the cut into the HINDAN; and the Irrigation Commission (1901) recently proposed to make more water from the Ganges available by increasing the supply of the Lower Ganges Canal through a cut from the SARDA. The lumna supplies drinking-water to the cities of Agra and Allahābād, which possesses, when fresh, special virtue in destroving the enteric microbe. It is crossed by railway bridges near Sarsawa in Sahāranpur, at Delhi, Muttra, Agra, Kālpī (2,626 feet in width), and Allahābād (3.230 feet). The breadth of water-surface in the dry season varies from 2,600 feet at Okhla and 1,500 feet at Kālpī to 2,200 feet at Allahābād. The discharge in flood at Okhla is about 41,000 cubic feet per second, but this dwindles away to less than 200 in the dry season. The lumna drains a total area of about 118,000 square miles.

The traffic on the Jumna was formerly of some importance, and large sums were spent in clearing away reefs of kankar (nodular limestone) and conglomerate in Etāwah District. Before the opening of the East Indian Railway, much cotton grown in Bundelkhand was sent down the river from Kālpī. At present timber is carried down the upper portion, and stone and grain in the lower courses. The principal towns on or near its bank are. Delhi in the Punjab; and Bāghpat, Māt, Brindāban, Muttra, Mahāban, Agra, Fīrozābād, Batesar, Etāwah, Kālpī, Hamīrpur, and Allahābād in the United Provinces.

Jumna Canal, Eastern. - An important irrigation work in the Upper Doan of the United Provinces, taking off from the left or eastern bank of the Jumna. The canal is drawn from a branch of the river which divides soon after piercing the Siwāliks. The bed at this point has a rapid slope over boulders and shingle, and the supply is easily maintained by spurs. For some miles the canal itself flows over a similar bed. The main channel is 129 miles long, and there are 729 miles of distributaries and 447 of drains. Immediately after the British occupation of the Doāb, recurring famines pointed to the urgent necessity for irrigation, and surveys commenced in 1809, but work was not begun till 1823. Funds were limited, and the canal was first opened in January, 1830. Sir Proby Cautley's experience on this canal was of great assistance in carrying out the magnificent works of the more important Upper Ganges Canal. The line followed kept closely to that of an old canal of the seventeenth century. It has been

much improved since it was opened, by providing falls (which also supply power for flour-mills) to lessen the slope, and by straightening the channel.

The capital cost at the end of 1830-1 amounted to little more than 4 lakhs, which had increased to 46 lakhs by the end of 1903-4. The canal serves a rich tract in the Districts of Sahāranpur, Muzaffarnagar, and Meerut, lying between the Hindan and Jumna, and falls into the latter river a little below Delhi. It commands an area of 906,000 acres, and in 1903-4 irrigated 305,000 acres. The gross revenue has exceeded working expenses in every year except during the Mutiny; and the net profits are usually high, amounting to 9.9 lakhs or 22 per cent. on the capital outlay in 1903-4, while the gross profits were 14.5 lakhs. Since 1817-8 the canal has not been used for navigation.

Jumna Canal, Western. - An important perennial irrigation work in the Puniab, taking off from the west bank of the Jumna, and irrigating Ambala Karnal, Hissar, Rohtak, and Delhi Districts, and parts of the Native States of Patiāla and Jind. It is by far the oldest of the great canals in the Province, and originated in 1356, when Firoz Shah III utilized the torrent bed now known as the Chautang to conduct water to the royal gardens at Hissar and Hansi. This was little more than a monsoon supply-channel, and after about a hundred years water ceased to flow farther than the lands of Kaithal. In 1568 the emperor Akbar re-excavated the work of Firoz Shāh, and brought a supply from the lumna and the Somb into the Chautang, and so on to Hansi and Hissar. This was undoubtedly a perennial canal, as is testified by the a scient bridges at Karnal and Safidon, and the complete set of watercourses with which the canal was provided, besides the original sanad or working plan of the canal which is still in existence and promises a supply of water all the year round. A yet more ambitious scheme was undertaken in 1626 by All Mardan Khan, the engineer of the emperor Shah Jahan. The river supply in the western branch of the Jumpa was dammed up annually about 14 miles below the present head-works of the canal, and the water led along the drainage line at the foot of the high land through Panipat and Sonepat to Delly Drainages and escapes were fairly well provided for , and the Pulchaddar aqueduct, which took the canal across the Najafgarh thil drain near Delhi, was, for the time, a great engineering feat, and was retained, with slight modifications. when the branch was reopened in 1810. The net revenue from the canal was reckoned equal to the maintenance of 12,000 horse. the decay of the Delhi empire the upkeep of the canal was no longer attended to: water ceased to reach Hansi and Hissar in 1707, the flow on Firoz Shāh's line at Safidon stopped in 1720, and the Delhi branch ceased to flow in 1751-60. The Delhi branch was reopened in 1819. and the Hansi branch in 1825. The alignment of the canal was, however, by no means satisfactory; and as early as 1846 it was noticed

that the concentrated irrigation, the defective drainage, and the high banks which cut off the flow of the natural drainage of the country, all contributed to rapid deterioration of the soil and decline in health of the people. Saline efflorescence was rapidly spreading, and the inhabitants of the waterlogged area were affected with chronic disorders of the liver and spleen. Between 1870 and 1882 various remodelling schemes were sanctioned, with the object of securing increased control over the supply and its distribution, greater facilities for navigation, and improved drainage; and these have resulted in the complete disappearance of the swamps and accumulations of water, and a most marked improvement in the health of the people. The Sirsa branch was sanctioned in 1888, and this and subsequent minor extensions have largely increased the irrigating capacity of the canal. No less than 200,000 acres were rendered secure in 1896-7 by the Sirsa branch alone.

The head of the canal is at Tajewāla in Ambāla District, in 30° 17' N. and 77° 37' E., about 13 miles from the point where the river emerges from the lower hills. The river is here crossed by a weir 1,700 feet in length, flanked at each end by a scouring sluice and head regulator for the Eastern Jumna Canal on the left bank and for the Western Jumna Canal on the right, the full capacities authorized being respectively 1.300 and 6.380 cubic feet per second. The Western Junna Canal has thus a maximum discharge more than three times that of the average flow of the Thames at Teddington. For the first 14 miles of its course the canal runs almost entirely in the old west branch of the lumna river. It then effects a junction with the Somb river, a masonry dam across which holds up the combined streams and forces them into the canal head at Dadupur, which is provided with a regulator and a rapid a short distance below. After a farther course of about 18 miles, chiefly in natural channels, there is at Indri a regulator with a lock and escape head, where the canal divides into the Sirsa branch and the new main line. The Sirsa branch has a capacity of 2,000 cubic feet per second, and runs for 115 miles, watering the arid tract of country between Indri and Sirsa. Some 31 miles farther on, the main line bifurcates into the Hansi and new Delhi branches. Hānsi branch has a length of 47 miles and a discharge of nearly 2,000 cubic feet per second, and gives off the Būtāna branch with a capacity of 700 cubic feet per second. The new Delhi branch has a capacity of 1,750 cubic feet per second and a length of 74 miles to the point where it meets the Okhla navigation canal at Delhi. The total length of main canal and branches is 343 miles, of distributaries (major and minor) 1,797 miles, of drainage cuts 657 miles, of escapes 76 miles, and of mill channels o miles. The total area commanded by the canal is 4,000 square miles, of which 1,100 square miles are cultivable. The average

area of crops irrigated during the twenty years ending 1894-5 was 529 square miles, which rose in the four years ending 1901-4 to an average of 044 square miles: and the work is estimated to irrigate altogether 1.250 square miles. The capital outlay to the end of March. 1004 texcluding a contribution of 112 lakhs from the Patiala State), was 172.7 lakhs. The cross revenue for the three years ending March. 1004, averaged 22 lakhs, and the net revenue, after paving all interest charges and working expenses. 7.6 lakhs. or 4.4 per cent. on the capital outlay. The main line and the new Delhi branch are navigable from the head-works to Delhi. The Hansi branch is navigable to where it meets the Southern Punjab Railway at Hānsi. The expenditure on the provision for navigation is estimated at 16 lakhs; and, although near Delhi there is a certain amount of boat traffic, and timber is largely rafted down the canal, this large expenditure has proved hitherto a financial loss, and the combination of navigation with irrigation a failure. There are flour-mills at several of the falls : but the flourand the other mills at Delhi, which at one time were worked advantageously, are now closed, the water being too valuable to be used for this purpose.

Junagarh State.—Native State in the Kathiawar Political Agency. Bombay, lying between 20° 44' and 21° 53' N, and 70° and 72° E., with an area of 3,284 square miles. It is bounded on the north by Barda and Hālār, on the east by Gohelwar, and on the west and south by the Arabian Sea. The only elevation rising above the general level of the plains is the Girnar group of hills, the highest neak of which, Gorakhnāth, is about 3,666 feet above sca-level. All the hills are volcanic and consist of trap and basalt, but the summit of the Girnār is composed of syenite. The principal rivers are the Bhadar and the Saraswati. The Bhadar is the largest river in the State, and much irrigation is carried on along its banks and those of its tributaries. The Saraswati, or sacred river of Prabhas Patan, is famous in the sacred annals of the Hindus. There is also a densely wooded tract called the Gir, hilly in some parts, but in others so low as to be liable to floods during the rainy season. The climate is fairly healthy; but, except on the Girnar hill, the heat is excessive from the beginning of April to the middle of July. The annual rainfall averages 40 to so inches.

Until 1472, when it was conquered by Sultan Mahmud Begara of Ahmadabad, Junagarh was a Rajput State, ruled by chiefs of the Chudasama tribe. During the reign of the emperor Akbar it became a dependency of Delhi, under the immediate authority of the Mughal viceroy of Gujarat. About 1735, when the representative of the Mughals had lost his authority in Gujarat, Sher Khan Babi, a soldier of fortune, expelled the Mughal governor, and established his own

rule. Sher Khān's son Salābat Khān appointed his heir chief of Junāgarh, assigning to his younger sons the lands of Bāntwa. The ruler of Junāgarh first entered into engagements with the British Government in 1807. The chief bears the title of Nawāb, and is entitled to a salute of 11 guns. The present chief is tenth in succession from Sher Khān Bābi, the founder of the family. He holds a sanad guaranteeing any succession according to Muhammadan law, and the succession follows the rule of primogeniture. He was created a K.C.S.I. in 1899.

The population at the last four enumerations was: (1872) 380,921, (1881) 387,499, (1891) 484,190, and (1701) 395,428, dwelling in 7 towns and 811 villages. The decrease in the last decade (19 per cent.) was due to the famine of 1899-1900. Distributed according to religion, the population includes 301,773 Hindus, 85,684 Muhammadans, and 7,842 Jains. The capital is Junāgarh Town. Places of interest include the sacred mountain of GIRNĀR, crowned with Jain temples: the port of Verāval; and the ruined temple of Somnāth.

The soil is generally black, with scattered tracts of the lighter kind. Irrigation is mainly from wells worked with the Persian wheel and the leathern bag. In 1903-4 the area of cultivated land was 859 square miles, of which 108 square miles were irrigated. Four stallions are maintained for horse-breeding. Agricultural products comprise cotton, shipped in considerable quantities from the port of Verāval to Bombay, wheat, the ordinary varieties of pulse and millet, oilseeds, and sugarcane, of both the indigenous and Mauritius varieties. The Gir district contains about 1,200 square miles of good forest. The principal trees are teak, black-wood, jambu, and babūl, all of which are used for building purposes locally and are a source of revenue to the State. The forest, however, is not able to meet all the demands for building timber of the whole peninsula, as large quantities are imported by sea from the Malabar coast. Stone of good quality is obtainable for building.

The coast-line is well supplied with fair-weather harbours, suited for native craft, the chief being Verāval, Nawābandar, Sutrāpāra, and Māngrol. These ports supply grain, timber, and other necessaries to the greater part of Sorath. The State has its own postal arrangements. The Bhavnagar-Gondal-Junāgarh-Porbandar Railway passes through the territory. The main roads are from Junāgarh town towards Jetpur and Dhorājī, and from Junāgarh to Verāval. The ordinary country tracks serve in the fair season for the passage of carts, pack-bullocks, and horses. Oil and coarse cotton cloth are the principal manufactures.

Junagarh ranks as a first-class State in Kathiawar. The chief has power of life and death over his own people, the trial of British subjects

for capital offences requiring the previous permission of the Agent to the Governor. Though himself paving a tribute of Rs. 65.604 to the Gaikwar of Baroda and to the British Government, the Nawah of lunagarh receives contributions called sortalli, amounting to Rs. 02.421, from a large number of chiefs in Kāthiāwār. This levv. which is collected and paid to the Nawab by British officers of the Kathiawar Agency, is a relic of the days of Muhammadan supremacy. The gross revenue in 1903-4 was about 26% lakhs, chiefly derived from land (10 lakhs). Junagarh has a mint issuing coin which is current only in the State. The British rapec is also current. Revenue survey operations are in progress in the State, the total area surveyed up to 1004 being 2,612 square miles. The chief has entered into engagements to prohibit satt, and to exempt from duty vessels entering his ports through stress of weather. Of the eighteen municipalities, the largest is Junagarh, with an income of about Rs. 18,000. The State maintains a military force of 161 men; of these 99 are Imperial Service Lancers, and the remaining 62 are also mounted men. The total strength of the police is 1,760 men, of whom 144 are mounted. There are o jails, with a daily average of 51 prisoners in 1903-4. Besides one Arts College attended by 181 students, the State contains one high school, and 124 other schools, with 8,800 pupils. The State maintains ar medical institutions, including one hospital, which afforded relief to 121,000 persons in 1903 4. There is also a leper asylum containing 61 inmates. In the same year nearly 10,000 persons were vaccinated.

Junagarh Town,-Capital of the State of the same name in Kāthiāwār, Bombay, situated in 21' 31' N. and 70° 36' E., 60 miles south west of Rajkot. Population (1901), 34,251, including 17,248 Hindus, 15,011 Musalmans, and 1,020 Jams. Junagarh, situated under the Girnar and Datar hills, is one of the most picturesque towns in India, while in antiquity and historical interest it yields to none. The Uparkot or old citadel contains interesting Buddhist caves, and the whole of the ditch and neighbourhood is honeycombed with caves or their remains. The most interesting of these, called Khaprakodia. have the appearance of having been once a monastery two or three storeys in height. Dr. Burgess, in his Antiquities of Cutch and Kāthiāwār, has fully described these caves. The ditch is cut entirely out of the rock and forms a strong defence. In the Uparkot are two raits or wells said to have been built by slave girls of Chudāsama rulers in olden times; a mosque built by Sultan Mahmud Begara; near the mosque is a cannon 17 feet long, 7\frac{1}{2} feet in circumference at the breech, and 91 inches in diameter at the muzzle; another large cannon in the southern portion of the fort is 13 feet long and has a muzzle 14 inches in diameter. From the times of the Anhilyada kings the Uparkot has been many times besieged, and often taken, on which occasions the Rājā was wont to flee to the fort on Girnār, which from its inaccessibility was almost impregnable. Of late years several public buildings have been erected, and the town has been much improved by fine houses built by the nobles of the court. Among the public buildings may be mentioned a fine hospital, the Bahā-ud-dīn Arts College, a library and muscum, the Reay Gate with a clock-tower, and a fine high school. A collection of shops called the Māhābat Circle is in front of the Nawāb's palace. Uparkot is the ancient Junāgarh: the present town is more correctly called Mustafābād, and was built by Mahmūd Begara of Gujarāt.

Junapadar, -- Petty State in Kathiawar, Hombay,

Jungle Mahāls.—A vague term applied in the eighteenth century to the British possessions and semi-independent chiefdoms in Bengal, lying between the regular Districts of Bīrbhūm, Burdwān, and Bānkurā, and the hill country of Chotā Nāgpur. As the administration became more precise, inconvenience arose from the vagueness of the jurisdiction; and by Regulation XVIII of 1805 the Jungle Mahāls were constituted into a distinctly defined District, consisting of 15 parganas or mahāls from Bīrbhūm District, 3 from Burdwān (including the greater part of Bishnupur), and 5 from Midnapore (including Mānbhūm and Barābhūm). The separate District of the Jungle Mahāls was abolished by Regulation XIII of 1833, and the territory redistributed among the adjoining Districts. The tract is now comprised within Bīrbhūm, the Santāl Parganas, Bānkurā, Midnapore, and the eastern Districts of the Chotā Nāgpur Division, especially Mānbhūm.

Junnar Tāluka. -- Tāluka of Poona District, Hombay, lying between 18° 59' and 19° 24' N. and 73° 38' and 74° 19' E., with an area of 591 square miles. It contains one town, Junnar (population, 9,675), the head-quarters, and 158 villages, including Onua (6,392). The population in 1901 was 117,753, compared with 115,762 in 1891. The density, 199 persons per square mile, is above the District average. The demand for land revenue in 1903 4 was 2 lakhs, and for cesses Rs. 14,000. The chief range is that of Harischandragarh. Junnar consists chiefly of the two valleys of the Mina and the Kukdi. A small portion in the west is composed of high hills and rugged valleys. In the east the soil is either black, of variable depth, or a poor gravel. Bājra is the staple crop. The climate is dry and healthy, and free from hot winds. The annual rainfall averages 30 inches.

Junnar Town.—Head-quarters of the tāluka of the same name in Poona District, Bombay, situated in 19° 12′ N. and 73° 53′ E., 56 miles north of Poona city, and about 16 miles east of the crest of the Western Ghāts. Population (1901), 9,675. The fort of Junnar, often noticed in Marāthā annals, was built by Malik-ut-Tujār in 1436.

In May, 1657. Sivait surprised and plundered the town, carrying off about 10 lakhs in specie, besides other valuable spoil. About 14 miles south-west of the town is the hill fort of Shivner, granted in 1500 to the grandfather of Sivail: the latter is said to have been born here in 1627. During the turbulent times of Maratha warfare Shivner was often taken and retaken, and once, in 1670, the forces of Sivait himself were beaten back by its Mughal garrison. Besides fine gates and solid fortifications, it is celebrated for its deep springs. They rise in pools of great depth, supposed to be coeval with the series of Buddhist caves which pierce the lower portion of the scarp. The chief buildings of interest in lunnar are the Jama Masiid, five hundred years old. a mosque dating from the time of Shah Jahan, the Afiz Bagh, and two fine dargilis. The hills surrounding the plain of lunnar are honeycombed with Buddhist caves, many of them of striking interest. Chief of these is a circular cave situated in a hill beyond Shivner. bear traces of fine carving, and there are a few inscriptions dating back to the first century of the Christian era. lunnar is supposed to have been a town of great importance in the days of the Western Kshatrapas. (See BOMBAY PRESIDENCY, History.) The municipality, which was established in 1861, had an average income during the decade ending 1901 of Rs. 8,800. In 1903-4 the income was Rs. 13,000, chiefly derived from octroi and a tax on houses and lands. Though fallen in size and importance since the time of Muhammadan rule, and by the subsequent transfer of the seat of government to Poona under the Marathas, lunnar is still a place of considerable note. It is the chief market of the northern part of the District, and a depôt for the grain and merchandise passing to the Konkan by the Nana ghat. has a high school and nine other schools, attended by 824 boys and 152 girls, a dispensary, and a Subordinate Judge's court. It was formerly celebrated for the manufacture of paper, but the low rates at which the European article is now sold have almost driven native paper out of the market. A branch of the Church Missionary Society is stationed here.

Jutogh. - Hill cantonment in Simla District, Punjab, situated in 31° 7′ N. and 77° 7′ E., about a mile from the western extremity of the station of Simla. The land was acquired from Patiāla in 1843. During the summer months one battery of British mountain artillery and two companies of the regiment quartered at Sabāthu are stationed here. Population (March, 1901), 375.

Kabbaldurga.—Fortified conical hill in the Malavalli tāluk of Mysore District, Mysore, situated in 12° 30' N. and 77° 18' E., 3.507 feet high. The sides are very precipitous, and the summit is accessible only on one side, where some notches are cut in the solid rock. It was a penal sottlement for state prisoners under the Hindu and Musal-

mān dynasties. The poisonous water and noxious climate, aided by unwholesome food, soon ended the lives of the victims confined in it. The unfortunate Chāma Rājā and his wife were sent here by the Dalavāyi Devarāj in 1734, and Morāri Rao, the Marāthā chief of Gooty, by Haidar Alī, who gave the place the name of Jāfarābād. In 1864 the guns were destroyed and the guards removed.

Kabbani (also called Kapini or Kapila).—An important tributary of the Cauvery. It rises on the Western Ghāts in North Wynaad, and enters Mysore at the south-west corner of Mysore District. Running north-east with a very winding course through the Heggadadevankote tāluk to near Belatūr, it there turns east, and receiving the Nugu and (at Nanjangūd) the Gundal, both from the south, joins the Cauvery at Tirumakūdal Narsipur, the confluence being esteemed a spot of great sanctity. The Kabbani is a fine perennial river, 150 to 200 yards wide, and has a total course of about 150 miles, of which 120 are in Mysore. The Rāmpur channel, 32 miles long, drawn from it, irrigates nearly 1,400 acres.

Kabirwāla.— Northernmost tahsil of Multān District, Punjab, lying between 30° 5' and 30° 45' N. and 71° 35' and 72° 36' E., with an area of 1,603 square miles. The population in 1901 was 130,507, compared with 113,412 in 1891. It contains the town of Talamha (population, 2,526) and 320 villages, including Kabirwāla, the head-quarters. The land revenue and cesses in 1903-4 amounted to 5·2 lakhs. The Rāvi runs through the northern portion of the tahsil to its junction with the Chenāb in the north-west corner. The north and west portions are irrigated by the Sidhnai Canal, while the south consists of uncultivated Bār jungle.

Kābul Province.—The central and most important province of Afghānistān, bounded on the north by Afghānistān, on the east by the district of Jalālābād, and on the south and west by the provinces of Kandahār and Herāt. The general elevation is probably not less than 7,000 feet, while a considerable portion of the province consists of a region of lofty mountains. It is crossed in the north by the Hindu Kush. The Bandi-Bāba and the Paghmān form a great watershed in its centre, dividing the upper reaches of the Kābul, Helmand, and Hari Rūd rivers. The lofty highlands of the Hazārajāt form its south-western districts, and in the south and south-east are the uplands of Ghazni.

The northern districts of the province are Kohistān, Panjshīr, Bāmiān, Saighān, and Nijrao. These are peopled by Kohistānis and Tājiks, while in Bāmiān Hazāras are also numerous. Its western and southwestern districts are those of the Hazārajāt, including the country of the Besūd, the Deh Zangi, and the Deh Kundi tribes of Hazāras. In the south and south-east lie Ghazni, Gardesh, Khost, and Logar.

The predominant inhabitants of these districts are Ghilzais and other Afghan tribes, but Hazāras and Tājiks are also to be found.

The winters are extremely rigorous; but the spring, summer, and autumn are, with the exception of July and August, quite European in character.

There are numerous evidences of Persian, Greek, Hindu, Buddhist. and Muhammadan antiquities in the Province. The Surkh Minar. near Kabul city, is no doubt a copy of the capitals of Persenolitan pillars, while Greek influence is evident in the Buddhist monasteries and stupes found along the Kabul valley. The valley is also rich in Gracco-Bactrian coins. In the Koh-i-Dāman, north of Kābul, are the sites of several ancient cities, the greatest of which, called Beghram, has furnished thousands of coins, and has been supposed to represent Alexander's Nicaea. Investigations at Jalalabad during the late Afghan campaign resulted in the recovery of many interesting sculptures in stone, slate, and plaster. Among the most remarkable relics of a bygone age are the colossal figures carved in the cliff at Bāmiān, north of the Koh-i-Bāba, and the adjoining caves. The largest of these figures is 180 feet high. Authorities differ as to their origin, but it seems most probable that they are Buddhist. The surrounding caves answer to the requirements of a Buddhist monastery, and close to the foot of the cliff is a mound resembling a Buddhist stupa, the exploration of which may some day put the question at rest.

For history, trade, and industries see Afghānistān, and Karul City.—Capital of Afghānistān, situated in 34° 30' N. and 69° 13' E., on the right bank of the Kābul river, a short distance above its junction with the Logar, 181 miles from Peshāwar: 5,780 feet above the sea. North of the city, on the left bank of the river, stand the suburbs of Deh 1-Murād Khāni, Andarābai, and Deh-i-Afghān, and beyond those is the military cantonment of Sherpur, backed by the Bemāru bill. To the south east are the Sher Darwāza heights, to the south the Bāla Hissār, and to the east the Siāh Sang ridge. On the west the Kābul river flows through the gorge formed by the Asmai and Sher Darwāza hills. The number of inhabitants is probably nearly 150,000, of whom 100,000 are Kābulis, 3,000 Durrānis, 12,000 Tājiks, 6,500 Kizilbāshis, and 4,000 Hindus. The city is 3½ miles in circumference and is no longer walled, although traces of a wall remain.

Kabul, though by far the richest city in the Amir's dominions, contains no external or internal evidences of grandeur. The older houses are built of burnt bricks; the more modern ones of sun-dried bricks and mud. Originally there were seven great gates; now only one remains, the Darwaza-i-Lahauri, on the eastern face. The city is divided into quarters (muhallas) and streets (kūchūs). The principal streets are the

Shor Bāzār and the Chār Chatta: they are badly paved, undrained, and exceedingly dirty. The Shor Bāzār extends from the Bāla Hissār to the Ziārat-i-Bāba Khudi, a distance of about three-quarters of a mile. The Chār Chatta consists of four covered arcades at the western end of the street leading from the Darwāza-i-Lāhauri. It was destroyed by Pollock in 1842, but restored by Amīr Dost Muhammad in 1850. Here are shops tenanted by silk-mercers, jewellers, furriers, cap- and shoemakers, fruiterers, and money-changers, all doing a thriving business. The Kizilbāshis live in the separate walled quarter of Chandaul, by the mouth of the Deh Mozang gorge. A row of fine new shops, called Bāzār-i-Nao, has recently been built on the north side of the river, near the Darwāza-i-Ark.

The climate of Kābul is, on the whole, healthy. The great lake of Wazīrābād beyond the Sherpur cantonment has been drained and is now dry; but the marshes between the Bāla Hissār and Beni Hissār give rise to malaria and fevers. The city itself, wedged in between two hills, with its confined streets, want of drainage, and absence of all sanitary arrangements, would seem to labour under strong disadvantages. Nevertheless, there are compensations in an excellent water-supply, a fine atmosphere, and delightful environs; and the death-rate is probably lower than in most Afghān towns. Provisions are abundant and cheap. In ordinary years, barley sells at 22½ seers per British rupee (about 34 lb. for a shilling), wheat at 18 seers, and flour at 16 seers.

Kābul is believed to be the Ortospanum or Ortospana of Alexander's march. It was attacked by the Arabs as early as the thirty-fifth year of the Hijra, but it was long before the Muhammadans effected any lasting settlement. Kābul first became a capital when Bābar made himself master of it in 1504, and here he reigned for twenty years before his invasion of Hindustān. It passed on the death of Bābar to his younger son, Kāmrān, who, after several attacks on his brother Humāyūn, was defeated and blinded by him (1553). Humāyūn left it to his infant son, Mirza Hākim, on whose death, in 1585, it passed to the latter's elder brother, Akbar. From this time up to its capture by Nādir Shāh (1738), it was held by the Mughal emperors of India. From Nādir Shāh it passed to Ahmad Shāh Durrāni, whose son, Timūr, made it the capital of his kingdom. It continued to be the capital during the Sadozai dynasty, and is so still under the now reigning Hārakzais.

The city played an important part in the first Afghān War. In August, 1839, Shāh Shujā entered Kābul as king, escorted by a British army. Throughout that year and the next, the British troops remained without molestation, but in November, 1841, the citizens and Afghān soldiery broke out in rebellion and murdered Sir Alexander Burnes-

In December Sir William Macnaghten, our special Envoy, was treacherously shot by Akbar Khān, a son of Dost Muhammad, at an interview which had been convened to arrange for the withdrawal of the garrison. On January 6, 1842, the British forces marched out under a solemn guarantee of protection—4,500 fighting men, with 12,000 followers. Their fate is well-known: of all that number, only a single man, Dr. Brydon, reached Jalālābād, and ninety-two prisoners were subsequently recovered. Shāh Shujā was assassinated in April, four months after the withdrawal of the British troops. In September, 1842, General Pollock, with the army of retribution, arrived at Kābul, and took possession of the citadel without opposition. Previous to his departure a month later, the great bazar was destroyed by gunpowder, as a retribution for the murder of Sir William Macnaghten.

Kābul was again occupied by British troops in 1879, when an avenging force under General (now Lord) Roberts was sent to exact punishment for the massacre of the British Resident, Sir Louis Cavagnari, and his party, which took place in September of that year. The city remained in British occupation for nearly a year. During the winter the tribesmen rose in large numbers, and, after heavy fighting for several days, the British troops were compelled to concentrate in the Sherpur cantonment, which remained closely invested by at least 50,000 men. A determined attack was beaten off on December 23, 1879; and, on the following day, an additional brigade having arrived and joined General Roberts, the city again passed into his hands, the tribesmen melting away as suddenly as they had appeared. In August, 1880, the British forces evacuated Kābul and returned to India, on the recognition of Abdur Rahmān Khān as Amīr.

Kābul does not possess many edifices of antiquarian interest. The tour principal mosques at the present time are the Masjid-i-Safed, built by Tīmūr Shāh Sadozai; the Masjid-i-Bāla Chaok, by Bābar; the Masjid-i-Pul-i-Khishti, by Shāh Shujā; and the large Jāma Masjid, by the late Amīr. Outside the city are the tombs of Bābar and Tīmūr Shāh. The surroundings of Bābar's tomb have been converted into a garden, beautifully laid out and encircled by a mud wall 30 feet high. It contains a prettily built summer-house. At Indaki, three miles away, overlooking the Chahārdeh valley, is another charming summer residence and garden; and on the slopes of a hill between Shāh Mardān and Wazīrābād is yet another, known as the Bāgh-i-Bāla. All these country residences and several others were built in the reign of the late Amīr, and are not the least among the many improvements which he effected.

The old residence of the Amīrs used to be in the Bāla Hissār, but Abdur Rahmān Khān constructed a new fortified palace for himself, described below. The lower Bāla Hissār has been completely

dismantled; the old Residency, the scene of the deplorable outbreak where the gallant Cavagnari, all his British officers, and most of his escort met their death in September, 1879, has almost entirely disappeared; and in 1893 the only building inside was Sher Ali Khān's palace, a mere shell, on the eastern wall. In the upper Bāla Hissār, just beyond the Residency site, and under the wall of the citadel, an arsenal and extensive storehouses for grain have been constructed.

The new fortified palace (or Ark as it is locally called) is situated in extensive grounds, not less than three-quarters of a mile by half a mile, between Alamganj and Sherpur. It occupied five years in building, and cost about 20 lakhs of rupees. A considerable portion of the grounds is laid out in fruit and flower gardens. There are two gateways, one facing Alamganj and the other looking east towards Siāh Sang. The fortified Ark is surrounded by a moat. It is a massive structure about 350 yards square; the width of the ditch is not less than 60 feet at the top.

The works of improvement carried out at Kābul by Abdur Rahmān Khān were by no means limited to the construction of palaces and summer gardens for his personal gratification. He showed a remarkable interest in the development of numerous branches of industry; and the extensive workshops established by him, under European supervision, are a lasting monument to his name. When one remembers that on Abdur Rahman's accession, and indeed for nearly ten years later, steam power was unknown throughout Afghanistan, what was accomplished during the second decade of his reign is indeed surprising. On the left bank of the Kābul-river, and right in the Deh Mozang gorge, there are now workshops whose out-turn, all circumstances considered, comes up to European standards. The raison d'être of these shops is the manufacture of war material, but other handicrafts are also practised. One large shop, for instance, is entirely occupied by men engaged in leather work-boots, saddles, and equipment for the army; another is occupied by steam saw-mills and carpenters; a soap factory turns out 12 tons of soap in a week; candles are manufactured: a mint worked by steam coins 40,000 Kābuli rupees a day; and constant labour is found for skilled workers in silver and brass. In 1803 five steam engines were used in the shops; others are believed to have been imported since. The initiation of this great undertaking was due to the late Amir, with Sir Salter Pyne as his principal lieutenant. At one time, in 1892, no less than fourteen Europeans were at Kābul in the Amīr's employ, among them a doctor, a geologist, a mining engineer, a gardener, a veterinary surgeon, a tailor, a lapidary, a tanner, and a currier. In 1904 there were only two Europeans at Kābul-a gunsmith and an electrical engineer. About 1,500 men are employed in the shops, the majority being

Kābulis who have learnt their work from English mechanical engineers and Punjābi artisans, and are now thoroughly efficient.

There is no occasion to describe in detail the fortifications of Kābul. Those left by the British forces on their withdrawal in August, 1880, are kept in repair; and the cantonment of Sherpur, which afforded accommodation for most of the British force, is now occupied by the Afghān garrison.

There are five bridges across the river at Kābul, one of which (now broken) was built by the emperor Bābar, and another by Shāh Jahān.

Besides the large trade in local products necessary to meet the requirements of the city population, Kābul is credited in the trade statistics for 1903-4 with imports from India to the value of 50 lakhs of rupees, and with exports aggregating nearly 29 lakhs: that is to say, with more than half the entire trade between Afghānistān and British India. The principal imports are British and Indian cotton twist and yarn, piece-goods, manufactured leather, hardware, indigo, sugar, tea, and spices. The principal exports are fresh and dried fruits, asafoetida and other drugs, and furs.

Kābul has attained an enviable reputation for its practically unlimited supply of fruit. Throughout the Kābul valley orchards extend for miles, and hardly a country house is without its large walled garden. The grape here grows to great perfection, the vines never having suffered from the phylloxera of Southern Europe. All the known European fruits, such as the apple, pear, quince, plum, apricot, peach, cherry, mulberry, are found in abundance; and a variety of melon, known as the sarda, which is said to grow only in the Kābul district, is exported to every part of India.

Kabul River.—River of North-Western India, which rises in Afghānistān near the Unai Pass, about 40 miles west of Kābul city, in 34' 21' N. and 68° 20' E. In its upper course it is joined by many small tributaries from the southern slopes of the Laghman range. It is at first an inconsiderable stream, being fordable as far as Kābul city. At a short distance beyond this it receives the Logar from the south, and thenceforward becomes a rapid river with a considerable volume of water. About 40 miles below Kābul city it receives from the north the Panjshir; 15 miles farther on the Tagao; 20 miles below, the united streams of the Alingar and Alishang; and a few miles above Jalālābād, the Surkhāb from the south. Just below Jalālābād it is joined by the Kunar from the north. After these accessions, the Kābul becomes a large river, nowhere fordable. Flowing with great force, it hugs the north side of the Jalalabad valley until it enters the Mohmand Hills, when it presses towards the north base of the Khyber range, and is confined between hills until it enters British territory

near Michni Fort. Here it divides into two branches, the Adezai on the north and the Nagūmān on the south.

The Adezai, or Hājizai, is at present the main stream. It divides the taksīls of Peshāwar and Chārsadda for 20 miles, and, after a further course of 10 miles through the latter taksīl, rejoins the Nagūmān at Nisatta, after receiving the waters of the Swāt. The Nagūmān, formerly the main stream, throws off the Budhni, a small branch which supplies the Jui Shaikh canal, and after receiving the drainage of the Khyber Hills, turns north and joins the Shāh Alam, itself a chord of the Nagūmān. That stream has a course of 20 miles before it reaches Nisatta, and below that place the joint stream is known as the Landai or 'short' river. The Landai flows between low banks for its first 12 miles, but below Naushahra it has cut a deep channel and its lower reaches are rocky. After a course of 36 miles it falls into the Indus at Attock. Thus the total course of the Kābul river is about 316 miles.

From its source to Jalālābād, the river is of no value except for irrigation, which it also affords in the Frontier Province (see Kābul River Canal); from Jalālābād to Dobandi, it affords safe, and generally rapid, descent down stream by means of rafts of inflated skins. This mode of travelling is frequently resorted to, as it saves ten marches which may be traversed in twelve hours when the river is in flood. The boatmen of Lālpura, Jalālābād, and Kunar are a peculiar race, keeping much to themselves, and are known under the generic title of nilābi. From Dobandi (or Nisatta) to Attock, the Kābul is navigable for boats of 40 or 50 tons

Between Kābul city and Jalālābād, the river is fordable in places; but after it has been swelled by the waters of the Logar, the fords are not always practicable; both at Sarobi (opposite Naglu) and at Jalālābād there are alternative fords and ferries. The precarious nature of the Jalālābād ford was illustrated by a catastrophe which occurred in March, 1879, when an officer and forty-six non-commissioned officers and men of the 10th Hussars were drowned while attempting a passage in the dark. The principal ferries between Dobandi and Attock are from Nisatta to Khalil Bandah, and from New to Old Naushahra. The railway from Naushahra to Dargai crosses the river, and there is a bridge of boats at the same site, while another has recently been constructed at Lālpura below Jalālābād. Permanent bridges cross the river in Kābul city.

Kābul River Canal.—A perennial irrigation work in the Peshāwar District of the North-West Frontier Province. It is a revival of an old Mughal canal, and takes off from the right bank of the Kābul river at the village of Warsak on the border of British territory, about 3 miles up-stream from Michni Fort. The main line is 20 feet in width at the

off-take, and can carry more than 300 cubic feet a second. It crosses the watershed of the country, passing over thirty-six drainage channels of greater or less size, and running close to Peshāwar terminates at the fortieth mile near Naushahra. The distributaries include four branches, with a total length of 19 miles, the largest being the Kuror branch, 9½ miles long. A small private canal is situated near the canal head. The tract commanded is a long narrow strip of irregular width, bounded on the south and west by the canal itself, and on the north and east, for the upper two-thirds of its length, by the low-lying ground irrigated by old proprietary canals, of which the Jui Shaikh is the most important; while for the lower third of its length the Kābul river is the boundary.

The area now commanded exceeds 30,000 acres. It is at present considerably interspersed with that irrigated by the Jui Shaikh and other private canals, as well as by the Bārā river works; but there seems every prospect of the greater portion of all this area ultimately coming under the canal. Irrigation is chiefly for the autumn harvest, and the area of crops actually irrigated during the three years ending 1902 averaged 30,173 acres; in 1903-4 it was 27,800 acres. The canal was opened in 1893, the Kuror branch being added subsequently. The capital cost up to March, 1904, was Rs. 6,45,000, and the net income in 1903-4 was Rs. 90,800, giving a return of nearly 24 per cent. On October 1, 1903, the revenue management of this canal was taken over by the Irrigation department. An extension called the Hazār Khāni branch is now under construction.

Kachch,- State in Bombay. See Curcu.

Kachhl.—Division of the Kalāt State, Baluchistān, lying between 27° 53′ and 29° 35′ N. and 67° 11′ and 68° 28′ E. It consists of a flat triangular plain, 5,310 square miles in area, with its base on the Upper Sind Frontier District of Sind, and is enclosed by the Marri and Bugti hills on the east, and by the Kirthar and Central Brāhui ranges of the Jhalawān country on the west. On the north-east side of its apex lies the British tahsīl of Sibi. The only hills, other than the skirts

Physical aspects.

of the surrounding mountains, consist of the low range called Bannh, separating Dādhar on the north from the Bolān lands on the south. The principal rivers are the Nāri, the Bolān, the Sukleji, and the Mūla. Among the hill-torrents are the Dhoriri, formed by the junction of the Sain and Karu from the Jhalawān country, the Lahri, and the Chhatr. On entering Kachhi, all these rivers are dissipated into numberless natural channels, spreading over the great alluvial stretches of which the country is composed.

The geological structure of the country is uniform, consisting of a level bed of clay burnt by the rays of the sun and probably of great

depth. The outskirts of the surrounding hills are of the Siwālik sormation. Except along the soot of the hills, the general aspect of the country is desolate and bare. The flora is thorny and scant, consisting of a stunted scrub. Among the trees occur Prosopis spicigera, Salvadora oleoides, Capparis aphylla, and two kinds of Tamarix. Common plants are Calotropis procera and many saltworts, such as Haloxylon salicornicum. Wild animals are scarce; a sew 'ravine deer' (gazelle) and other small deer occur, and flocks of sand-grouse visit the cultivated areas in winter.

Situated in close proximity to Sind, Kachhl is one of the hottest areas in India. Scorching winds blow in the summer, and at times the deadly simoom (Ink) prevails. Mosquitoes are so numerous that, at Gājān, a special portion of the crop has been assigned to a saint for his protection against them. From November to February the climatic conditions are pleasant, the air being crisp and cool. The annual rainfall averages about three inches, and usually occurs in July and August.

The history of Kachhi is intimately connected with that of Sind. In the seventh century Rai Chach took its capital Kandābīl, probably Gandāva. To the Arabs the country was known as Nūdha or Būdha, and Kandābīl was despoiled by

It afterwards passed into the hands of the them on several occasions. Sumras and Sammas of Sind. The fifteenth century saw the arrival of the Baloch and the conflicts between their two leaders, Mir Chākar, the Rind, and Gwahram Lashari. The Arghuns next took possession. and from them the country passed to the Mughals, and on the decline of the latter to the Kalhoras. In 1740 Nadir Shah handed it over to the Brahuis in compensation for the death of Mir Abdullah, the Ahmadzai Khān of Kalāt, at the hands of the Kalhoras in the fierce battle of Jandrihar near Sanni. From 1839 to 1842, during the first Afghān War, Kachhi was held and administered by the British on their lines of communication, and was the scene of much raiding and of two fights with the insurgent Brahuis in 1840. After the war General John Jacob's cavalry was employed in checking the raiding propensities of the Kachhi tribesmen, especially the Jakrānis, who were subsequently removed to Sind. In the time of Mir Khudādād Khān of Kalāt it was long a scene of anarchy and raiding, and at Bhag in 1803 this ruler committed the crime in consequence of which he subsequently abdicated.

Buddhist remains have been discovered at Chhalgari and Tambu, and many of the mounds scattered through the country would probably repay excavation.

The number of villages is 606. The population (1901) is 82,909, the majority being Jats. Among important Baloch tribes are the

Rinds, Magassis, and Lāshāris; and among minor tribes, Buledis, Dombkis, Kaheris, and Umrānis. Roughly speaking the Magassis and Population.

Rinds occupy the west, and the Dombkis, Kaheris, and Umrānis; the east; the Jats are found everywhere as cultivators. A few Brāhuis, such as the Raisānis and Garrāni Bangulzais, have permanently settled in the north of the country, and in the cold season it is visited by many other Brāhuis from the highlands. The occupation of nearly all the people is agriculture. Hindu traders are found in all important villages; the lower castes include potters, sweepers, blacksmiths, and weavers. The most common language is Sindī, but Western Punjābi and Baluchī are also spoken. Except the Hindu traders, all the people are Sunni Musalmāns. A sect called Taib ("penitents") has made some progress since 1800.

It is usual to speak of Kachhi as a desert, but this is a mistake. The soil is extremely fertile wherever it can be irrigated. Its quality

depends on the admixture of sand. The best is Agriculture. a light loam mixed with a moderate proportion of sand (matt). Except a fringe of 'wet-crop' area on the west, most of the land entirely depends for cultivation on floods brought down by the rivers from the surrounding hills, the water of which is raised to the surface by a system of large dams constructed in the beds of the rivers by the co-operation of the cultivators. A description of this interesting system is given in the paragraphs on Agriculture in the article on BALUCHISTAN. The floods generally occur in July and August, but occasionally also in spring. Three crops are harvested during the year: sanwanri, sarav, and arhari. The first is the principal crop, and is sown in July and August and reaped in the autumn. It consists of rowar, with a little mung, moth, and barra. The second, or spring crop, comprises wheat, barley, mustard, and rape; the third, 1000ar for fodder, cotton, and water-melons. Kachhi invar is renowned for its excellence, and is usually cultivated on a soil known as khauri. Indigo is grown in Dadhar. The cultivation of the saray crop is uncertain, depending on late floods in August. Dādhar, Sanni, Shorān, Gājān, Kunāra, part of Gandāva, and Ihal are the only places where irrigation from permanent sources exists.

Bullocks from Nāri in Kachhi are famous for their shape and strength, and many are purchased by dealers from the l'unjab. Camels are bred in some numbers. The breed of horses is excellent. Branded mares number 604, and one stallion was located in the country in April, 1904. The best breeders are the Magassis, Dombkis, and Rinds. The indigenous sheep do not possess fat tails, but many of the fat-tailed variety, known as Khorāsāni, are brought from the highlands in winter. Of goats, the barbari breed is most prized.

No 'reserved' forests exist, but protective measures are adopted by

the tribal chiefs. The western side of the country contains some well-wooded tracts. A sulphur mine at Sanni was worked in pre-British days by the Amīrs of Afghānistān. Ferrous sulphate $(z\bar{a}gh)$ is found in the mountains near Kotra and Sanni. Earth-salt is manufactured by the lixiviation of salt-bearing earth at Gājān and Shorān. Saltpetre is produced in small quantities, and the manufacture of carbonate of soda (khar) from the numerous saltworts is increasing.

The principal industry is the weaving of coarse cotton cloth. Double coloured cotton sheets (khes) of good quality are produced here and there, while at Lahri and a few communications. other places a fine kind of embroidered leather-work is manufactured. Country rifles, swords, and saddles are made at Bhag and Dadhar.

Most of the trading class come from Shikārpur in Sind. The centres of trade are Dādhar, Lahri, Hāji, Bhāg, Shorān, Gājān, Kotra, Gandāva, and Jhal. Piece-goods, rice, sugar, and country carts are imported from Sind. dates, ghī, wool, and medicinal drugs from the highlands for re-export. Exports to the highlands include cotton cloth, mustard oil, salt, and silk; the articles supplied to Sind consist chiefly of carbonate of soda, grain, and oilseeds. The North-Western Railway passes through the centre of Kachhi. No metalled roads have been made, but the country is easily traversed in all directions except after heavy floods.

The principal routes run from Jacobābād to Sibi via Lahri on the east; through Shori and Bhāg in the centre; and via Gandāva and Shorān to Dādhar on the west. The route through the Mūla Pass from the Jhalawān country debouches at Gandāva.

The insignificant rainfall, the dependence of the country on flood-irrigation, and the absence of proper means of distributing the flood-water render Kachhi extremely liable to scarcity and even to famine. Under existing conditions enormous quantities of water run to waste in the Nāri in ordinary years, and the introduction of a good irrigation and distribution scheme would doubtless afford a large measure of protection. The proximity of Sind and the free migratory habits of the population have hitherto prevented the necessity of actual famine relief. Advances amounting to about Rs. 29,000 were made to the Khān of Kalāt's cultivators in 1900, when the drought, which had begun in 1897, culminated. They were recovered at the succeeding harvests.

For purposes of administration, Kachhi is divided into two parts: areas subject to the jurisdiction of the Khān of Kalāt, and areas under tribal chiefs. Within the areas subject to the Khān, however, tribal units are to be found which occupy a position of practical independence. The political control of the YOL XIV.

country east of the railway, i.e. the whole of the Lahri niabat, is vested in the Political Agent of Sibi District, and of the remainder in the Political Agent, Kalāt. The area under the Kalāt State is divided into five niabats: Dadhar: Bhag: Lahri, which includes the area occupied by the Dombki, Kaheri, and Umrāni tribes: Gandāva: and Nasīrābād. The head-quarters station of each niabat is located at a village of the same name, except Nasirabad, of which the head quarters are situated at Mirpur Bibiwari. Dadhar, Bhag combined with Lahri, and Gandava with Nasirābād each forms the charge of a mustaufi, who is generally assisted by local officials known as naib and ja-nashin. Dadhar, however, possesses neither a naib nor a id nashin, and Gandava has no in nashin. The principal areas subject to tribal control are Ibal. inhabited by the Magassis; and Shoran, held by the Rinds. In Lahri, the Dombkis, Kaheris, and Umrānis have acquired a large measure of independence. In the ninbats, criminal, civil, and revenue cases are decided by the local officials; in tribal areas, netty cases are dealt with by the chief, and important or intertribal cases are referred to jirgas or local kāzis, who exercise much influence, under the orders of the Political Agents. In the numerous jugars within the Khan's nidbats, jurisdiction in all petty matters is exercised by the jagtrdars. The most common offences are cattle lifting and theft. Cattle are frequently stolen from Sind and sent to the Ihalawan country. Much use is made of trackers in the detection of such crimes, and some of these men are very skilful. They are paid by results.

The land revenue system presents an interesting survival of ancient native methods. The Khān collects revenue in his niābats, and elsewhere it is taken by tribal chiefs and jugirdars. It consists everywhere of a fixed share of the gross produce, varying from one-third to one-tenth, but generally one-third or one-fifth. The additional cesses (rasūm), however, raise the amount paid to one half. Irrigated lands sometimes pay a fixed cash assessment (kalang). Large jagīrs, originally granted for teudal service, are held by the Sarawān tribesmen in Halā Nāri and the Bolān lands, and by the Jhalawān tribes round Gandāva and at Chhatr-Phuleji. The Dombki headman holds one in Lahri. Generally the proprietary right in all areas is held by the local cultivating class, but in the Baloch areas of Jhal and Shorān it has been transferred in many cases to the chiefs.

Hesides the land revenue, contracts are given in the *niābats* for octroi, excise, and the collection of other minor taxes, the proceeds being included in the total revenue. The amount of land revenue proper varies with the extent and time of the floods in the rivers. Thus, in 1902 the Khān's aggregate revenue from all his *niābats* amounted to about 1 lakh, and in 1903 to more than 2½ lakhs; but in the latter year a new system of administration had been introduced.

The details of the latter sum are as follows: Dādhar, Rs. 49,200; Bhág, Rs. 32,500; Lahri, Rs. 58,100; Gandāva, Rs. 55,400; Nasīrābād, Rs. 56,600.

Tribal levies, paid by the British Government and numbering 50, are stationed at Dandor in Bālā Nāri, Lahri, Phuleii, and along the Detachments, consisting of 85 of the Khān's infantry and 12 artiilervmen, are located at Dadhar, Nasirabad, and Bhag; but their numbers vary from time to time. The number of the Khan's irregular levies is generally qr. A tribal thana of five men is posted at Gandava. Security is provided by the enlistment of kotunils. who are paid either by the inhabitants or from the Khān's revenues. Tribal chiefs maintain retainers and dependants, who are employed on revenue duties and in securing the general peace. The same system is followed in the Khān's nuibats by the local naibs, who distribute their friends and followers throughout the country at the expense of the cultivators. The Rind and Magassi chiefs receive allowances from the Khan of Kalat of Rs. 300 a month each. A jail is now in course of erection at Dadhar, criminals have hitherto generally been kept in the stocks. The country has no schools or dispensaries. Inoculation takes the place of vaccination, being performed by Saivids, Pirs, Shehs (the local name for Shaikhs), and Ababakis from the highlands.

Kachhi Baroda. -- Thakurit in BHOPAWAR AGENCY, Central India. Kachins.- A community of Tibeto Burman origin, inhabiting the north and north-east of Upper Burma and the Shan States. After the Shans and the Chins, the Kachins, known also as Chingpaws or Theinbaws, are the most numerous non-Burman people in the Upper Province. In 1901, 64,405 persons were returned as Kachins, but this includes only the population dealt with in the regularly enumerated areas. In what were known as the 'estimated' areas no race data were collected; but it is certain that at least three-eighths of the 127,011 persons inhabiting these areas were Kachins, and it will be safe to put the total of the race at nearly 120,000. About one-half of the population of Myitkymā District is Kachin; and Kachins form a substantial portion of the inhabitants of Bhamo, Katha, and the Ruby Mines, and of the Northern Shan States. Of the same primaeval stock as the Burmans and the Tibetans, the Kachins seem to have remained for centuries in possession of the uplands about and to the north of the head-waters of the western branch of the Irrawaddy, and it is only within the last few decades that they have encroached on their neighbours in the south. Of recent years, however, observers have had an opportunity of witnessing in the Kachins what in all probability will be the last of those immigration waves from the north that have played so important a part in the history of the Indo-Chinese Peninsula. The Kachin tribes have penetrated westwards into Assam, where they are

known as Singphos, and as far down the valley of the Irrawaddy as Kathā District; but here they appear for the time being to have been brought to a halt by contact with a comparatively dense population. Though checked in one direction, the southward movement still continues. The line of least resistance has now shifted to the east: the borders of the Northern Shan States, till recently inhabited only by Shans and Palaungs, have been gradually overrun; and in the direction of China the Kachins have worked their way as far south as the trans-Salween State of Kengtung. The next few years will probably see a further extension of the race in a southerly direction. The Kachins have given considerable trouble on the frontier in the past, and more than one punitive expedition has had to be sent against them.

Strictly speaking. Chingpaw is the name given only to the southern section of the Kachin race, the communities farther north being known generally as Khakus. The social system of the Kachins is tribal, but nothing approaching to tribal federation is known. The five principal tribes are the Marins, the Lenais, the Lahtawngs, the 'Nkhums, and the Marans. Subdivisions, clans, and families abound. About one hundred family names have been recorded, and persons bearing the same family name do not intermarty. The Kachins are practically all spirit-worshippers, and their nats are extremely numerous and, for the most part, malignant. The Kachin places himself en rapport with the spirit world through the offices of a medium (mi-twe) or a professional priest (tumsa). Divination is frequently resorted to by this very superstitious race. The dead are disposed of by burial. Taungya (shifting cultivation) is the usual form of agriculture practised in the Kachin country, rice being the main crop. The Kachin house is ordinarily far larger than a Burmese or Shan dwelling, and has many points of resemblance to the lengthy structure seen in some Palaung villages. Slavery still exists among the Kachins, but only to the modified extent in which it survives among the Chins of the Chin Hills. The Kachin physical type varies considerably. Though the physiognomy is Mongolian and often of a character far from attractive to Europeans, aquiline noses are not unknown and regular features are occasionally met with. The figure is short but wiry. There is nothing very distinctive about the dress of the Kachin men. They wear as a rule a dark jacket, a waistcloth (frequently of a plaid pattern) or Shan trousers according to their habitat, and a turban varying from locality to locality. The women ordinarily wear a jacket, sometimes long with long sleeves, sometimes short and practically sleeveless, as well as a skirt and turban, which, in the case of Chingpaw women, is often of considerable size. Wherever the means of the wearer allow it, silver torques are worn by the Chingpaw women. The Kachins speak a language belonging to the same linguistic sub-family as

Burmese, and resembling the latter closely in grammacical structure. It has various dialects, but they do not differ materially from one another. The Marus, the Szis, and the Lashis, hill tribes of the north-eastern frontier, have been looked upon as Kachins, whom they resemble somewhat in manners and dress. It appears, however, probable from their language that these tribes are more nearly connected with the Burmans than with the Kachins. Their original home was probably to the east of that of the Kachins.

Kāchola.—An estate in the north-east of the State of Udaipur, Rājputāna, held by the Rājā Dhirāj of Shāhpura as a grant from the Mahārānā, on payment of a tribute of about Rs. 2,400 and the performance of service. The nature of the service to be performed has long been in dispute; but it has recently been decided that the Rājā Dhirāj is to send his usual quota of troops for three months every year to Udaipur, and is himself to attend for one month at the same place every alternate year, generally at the Dasahra festival. The estate consists of 90 villages with (1901) 12,515 inhabitants, the majority of whom are Jāts, Gūjars, Rājputs, and Brāhmans. The head-quarters are at the small town of Kāchola, situated in 25° 24′ N. and 75° 8′ E., 3 miles east of the Banās river, about 100 miles north-east of Udaipur city and 20 miles south-east of the town of Shāhpura.

Kachuā.— Village in the Bāgherhāt subdivision of Khulnā District, Bengal, situated in 22° 39′ N and 89° 53′ E., at the junction of the Bhairab and Madhumatī rivers. Population (1901), 247. Kachuā is one of three market-places established by Mr. Henckell in the Sundarbans in 1782 3; the other two, Chāndkhāli and Henckellganj, are now of no importance, but Kachuā still has a large bazar. The principal export is rice; large quantities of kachu, a kind of yam, are also grown, from which the village possibly derives its name.

Kadalyanallūr.—Town in the Tenkāsi tāluk, Tinnevelly District, Madras, situated in 9° 4′ N. and 77° 20′ E. The population in 1901 was 13,939, weavers forming a large proportion. Local affairs are managed by a Union panchāyat.

Kadāna .-- Petty State in Rewa Kantha, Bombay.

Kadapa.—District, subdivision, tāluk, and town in Madras. See

Kadaura.—Chief town of the Baoni State, Central India, situated in 26° N. and 79° 50′ E., 15 miles from Kālpī station on the Jhānsi-Cawnpore section of the Great Indian Peninsula Railway. It became the head-quarters about 1820, before which date the chiefs lived at Kālpī. Population (1901), 3,004.

Kadi Prant.—A *prant* or district in Baroda State, situated in Northern Gujarāt, between 23° and 24° 9' N. and 71° 15' and 71° 50' E., with an area of 3,015 square miles. It is the largest and most pro-

ductive of the four prānts into which the Gaikwār's territory is divided. It is bounded on the north by the States of Pālanpur and Rādhanpur; on the west by Rādhanpur State and Ahmadābād District; on the south by Ahmadābād and Kaira; and on the east by the Mahī Kāntha States. Most of the prānt lies west of the Sābarmatī, and consists of a dreary looking plain, with few trees except near village sites. Some scattered portions east of the river are well wooded, and contain a few small but picturesque hillocks. The chief rivers are the Sābarmatī, the Saraswatī, and the Banās.

The greater part of the area is under cultivation, the fields being often surrounded by hedges composed of species like Capparis grands, C. sepiaria, Jatropha Curcas, Euphorbia antiquorum, with various Leguminosae, Menispermaceae, Asclepiadeae, and Convolvulaceae among the climbers. On waste ground such species as Calotropis gigantea, Jatropha gosypifolia, Fagonia arabica, Echinops echinatus, and Tephrosia purpurea are found. Field-weeds include Celsia coromandeliana, Sphaer anthes indicus, Launaea mudicaulis, Coldenia procumbens, and Blumea eriantha. Damp ground and stream beds contain Aeluropus villosus, Herpestis Monnieria, Mollugo hirta, Cyperus laevigatus, Scirpus subulatus, Hydrilla verticillata, and Potamogeton pectinatus. The planted of semi-spontaneous species near habitations include the mango, tamarind, teak, custard-apple, pomegranate, bael, and various species of Ficus, such as banyan and pipal.

Kadi is considered to be the healthiest part of the State, the *tālukas* of Dehgām, Vijāpur, Visnagar, and Pātan being favourably known for the comparative absence of malaria.

The population was estimated at 850,325 m 1872. At the three following enumerations it was: (1881) 988,487, (1891) 1,098,742, and (1901) 834,714. The prânt suffered severely in the famine of 1899-1900. It is divided into ten tālukas or mahāls, and two petas or sub mahāls, statistics of which in 1901 are given in the table on the next page.

The chief towns are PALAN, VISNAGAR, SIDHPUR, VADNAGAR, KADI, UNIHĀ, MEHSĀNA (the head-quarters), VIIĀPUR, CHĀNASMA, KHERĀLU, LĀDOL, KALOL, VALĀM, and UMTA. About 98 per cent. of the population speak Gujarātī. In 1901 only 8 native Christians were enumerated in the *prānt*, but the American Methodist Episcopal Mission claims 250 adherents in eight villages, and provides five day schools.

About 90 per cent. of the total area is composed of light sandy soil, which is very productive if manured and irrigated. Black soil is found in patches. Irrigation is chiefly supplied by wells, including large temporary wells which are used for a single season. The principal crops are bājra, jowār, wheat, banti, dangar, barley, vari, kadra, chenna, kuri, bācto, chasatio, kāng, math, mag, udid, guvār, turer, chola, chana.

onl, kulthi, sarsav, erandi, poppy, lal, kasumbo, tohacco, sugar-cane, cotton, bhendi, chillies, sakaria, and other garden products. Poppy is of great importance and covered 12,262 acres in 1904-5, yielding on an average 12 lb. of crude opium per acre.

| Täluk s . | ! | Area in aquare ondes. | Num | wher of | Population. | Population per viuare mile. | Percentage of variation in population be- | Number of persons able to read and write. |
|------------------|-----|--------------------------|-------|---------|-------------|--------------------------------|---|--|
| Kadı | , | 331 | -,: | 118 | 71,784 | 217 | - 25.9 | 4,344 |
| Kālol . | | 267 | - 13 | 88 | 80,532 | 304 | -17-1 | 5,038 |
| Vijāpar | | 346 | 2 ' | 107 | 117,286 | 339 | - 24.0 | 5,301 |
| Mehsana . | | 195 | 1 | 83 | 75,354 | 386 | - 10-1 | 4-314 |
| Visnagar. | | 172 | 2 | 5.4 | 70,989 | 471 | 11.3 17 | 5,319 |
| Vadāvli | | 332 | - 2 | 113 | 67,301 | 20,1 | - 35 7 | 2,830 |
| Pātan . | | 400 | - a . | 140 | 104,136 | 455 | - 43 5 | 7,605 |
| Sidhpur . | | 254 | 2 | 78 | 97,161 | 355 | - 16-1 | 5,584 |
| Kherālu . | . 1 | 246 | 3 | 88 | 76,463 | 301 | - 22.5 | 4,408 |
| Hárij . | 1 | 154 | | 43. | 13,505 | 81 | - 57 1 | 345 |
| Dehgām . | - ' | 239 | - 1 | 95 | 49,461 | 107 | - 48.6 | 2,865 |
| Atarsumba | • | 70 | | 56 | 18,871 | 270 | - 37.9 | 1,276 |
| Tu | tal | 3,015 | 18 | 1,063 | 834,744 | 277 | - 24.0 | 49,237 |

The spinning of cotton thread and silk and cotton-weaving are the chief industries. There may also be mentioned: embroidery on a small scale; the manufacture of ornaments in gold, silver, and ivory, and of betel-nut cutters, knives, brass and copper utensils, toys, and pottery. The number of ginning factories is six, one being connected with a weaving-mill. The chief centres of trade are Pātan, Kadi, Mehsāna, Visnagar, Vadnagar, and Sidhpur, the first being the most important. All these towns are connected by railway lines, by which the prānt is exceptionally well served. In addition to the main line of the Rājputāna-Malwā Railway, which passes from south to north, State lines diverge from Mehsāna to Kherālu, Pātan, and Viramgām, and from Kālol to Kadi and Vijāpur. The Ahmadāhād-Parāntīj line also serves some places. Other lines are projected from Mamund Road to Chānasma, from Visnagar to Vijāpur, and from Kherālu to Dabhoda.

The land revenue rose from 32.2 lakhs in 1881 to 35.8 lakhs in 1891, and was 35.5 lakhs in 1901; but in 1904-5, while the demand was 22 lakhs, the collections amounted to only 11.2 lakhs. A settlement for fifteen years was made between 1891 and 1900, and parts of the *prānt* are now being resettled. The *prānt* contains 36 mehwāsi villages, which were formerly assessed on the cultivated area only, but a settlement has now been made on the ordinary lines at greatly reduced rates. The average assessment varies in different tālukās from

Rs. 1-3-0 to Rs. 2-8-0 per bigha (* acre) for 'dry' land, and from Rs. 1-9-0 to Rs. 2-11-0 for 'wet' land.

The prant contains twelve municipalities, three of which are administered by boards reconstituted in 1905 on a partly elective basis. These latter—Pātan, Sidhpur, and Visnagar—have a total income of Rs. 21,500 from customs, excise, and tolls, besides grants of Rs. 7,000; and the remaining nine receive grants of Rs. 20,500. A District board and local boards were constituted in 1905.

The administration is carried on by the Sübah, while the court of the prant Judge is at Visnagar. Education is well provided for, as the prant has one high school (at Patan), 6 Anglo-vernacular schools, and 369 vernacular schools, the total number of pupils in 1904-5 being 25,316. Two civil hospitals and eleven dispensaries treated 86,329 patients in 1904-5, of whom 359 were in-patients.

Kadi Tāluka. - South-western tāluka of the Kadi prānt, Baroda State, with an area of 331 square miles. The population fell from 96,782 in 1891 to 71,784 in 1901. The tāluka contains one town, Kadi (population, 13,070) the head-quarters of the tāluk, and of the prānt until 1904; and 118 villages. The general aspect of the tāluka is very unprepossessing, as it consists for the most part of an uninterrupted plain bare of all trees. Round the town of Kadi, however, and in its neighbourhood there are trees in fair abundance, a gentle undulating country, and numerous tanks. The soil for the most part is light and sandy. In 1904-5 the land revenue was Rs. 2,58,000.

Kadi Town.—Head-quarters of the tahika of the same name. Baroda State, situated in 23° 18' N. and 72° 2' E., on the Gaikwar's State line from Kālol on the Rājoutāna Mālwā Rajlway. Population (1901), 13.070. It is a place of some importance in the State, owing to its connexion with Malhar Rao, who held it as jagirdar and rebelled against the Gaikwār Govind Rao. Till 1904 it was the head-quarters of the Kadi prant. The town seen from a distance presents rather a picturesque appearance, the domes of the fort gleaming from the thick wood which surrounds it. To the north hes a broad sheet of water fringed with trees, and on the edge which touches the houses the domed gate or Gumit Darwaza is effectively placed. The fort itself stands on a slight elevation; and its brick walls and numerous buttresses, though they enclose no great area, are of enormous thickness and in a good state of preservation. The chief buildings inside the fort are the Rang and Supra Mahals, while behind it is the palace or sarkarvada, which was formerly occupied by the Subah's and other offices. In addition, the town possesses a civil hospital, courts, jail, Anglo-vernacular and vertracular schools, and various dharmsalas and temples. Its narrow. streets contain gaudily painted houses, lavishly decorated with woodcarving, but the choking dust and the crumbled appearance of the

generality of the habitations give Kadi a mournful look. The State makes an annual grant of Rs. 2,700 to the municipality. Several fairs are held during the year, but the trade of the town is not very great. The chief industries are weaving, calico-printing, and the manufacture of brass and copper utensils. The cantonment is at present garrisoned by a detachment of State troops.

Kādīpur.—Eastern tahsīl of Sultānpur District, United Provinces, comprising the parganas of Aldemau and Chāndā, and lying between 25° 59' and 26° 23' N. and 82° 6' and 82° 41' E., with an area of 442 square miles. Population fell from 274,458 in 1891 to 265,450 in 1901, the rate of decrease being the highest in the District. There are 741 villages, but no town. The demand for land revenue in 1903-4 was Rs. 3,69,000, and for cesses Rs. 59,000. The density of population, for persons per square mile, is below the District average. The tahsīl is crossed by the Gumtī, and contains a large area of low-lying, badly drained ground. It thus suffers considerably in wet years, such as 1894. In 1903-4 the area under cultivation was 263 square miles, of which 151 were irrigated. Wells and tanks or jhīls are of almost equal importance as a source of supply in ordinary years.

Kādirābād.—Walled town in the Jālna tāluk of Aurangābād District, Hyderābād State, situated in 19° 51′ N. and 75° 55′ E., on the left bank of the Kundlika, opposite the town of Jālna. Population (1901), 11,159. It is an important centre of the grain and cotton trade, and contains a weekly bazar for grain and cattle. There are three ginning and two pressing mills, employing 470 hands. Post and customs offices are located here.

Kadiri Tāluk.-Western tāluk of Cuddapah District, Madras, lying between 13° 47' and 14° 31' N. and 77° 51' and 78° 28' E., with an area of 1.158 square miles. It is very irregular in shape, its extreme length being 45 miles, and its maximum breadth 35 miles. The population in 1901 was 145,503, compared with 134,915 in 1891, the increase during the decade being greater than in any other taluk of the District. The density was 126 persons per square mile, compared with the District average of 148. It contains one town, KADIRI (population, 10,403). the head-quarters, and 139 villages. The demand for land revenue and cesses in 1903-4 amounted to Rs. 2,07,000. The tāluk is very stony and barren, and is cut up by detached rocky hills which are usually destitute of vegetation. During the hot season the ryots entirely depend for water on wells, the rivers and almost all the tanks being quite dry. These wells are constructed at great cost and with considerable labour. the ground below the thin surface soil being often solid rock. The Madulery, one of the feeders of the Chitravati, rises in the tāluk, and the Papaghni passes through its southern and south-eastern portions; but they are of little use for irrigation. The soil is very poor, being

chiefly coarse red earth mixed with disintegrated granite, which is often impregnated with soda and other salts. Black cotton soil is, however, met with in patches here and there. The chief products are horse-gram, cholam, sugar-cane, and cotton. A good deal of jaggery (coarse sugar) is produced. Hematite occurs in small quantities and used to be smelted by the primitive native processes.

Kadiri Town.—Head-quarters of the taluk of the same name in Cuddapah District. Madras, situated in 14° 6' N. and 78° 10' E. Population (1901), 19,493. A large temple here (one of the most famous in the District) is dedicated to Narasimha, to whose festival many pilerims resort in the early part of the year. It is said that an image of Narasimha was found in an ant-hill under a chendra tree, but the same story is told of other places. The name of this tree in Sanskrit is khadri: and tradition states that when the jungle was cleared by Ranga Nāvudu, a local chieftain of Patnam, and the temple was built, this name was given to the town which grose round the shrine. It was for a long time the practice to let loose a tiger or leopard at the festival here in January and shoot at it, but one year a bystander was shot instead, and the custom was prohibited by the Collector. Two days after the car-procession, Paraivans and other low caste peoplecontrary to all precedent—are allowed to enter the temple. They bathe in the river close by and pass into the building in great crowds, carrying small bundles containing coin and jewels wrapped up in cloths, which they present to the god. These bundles are received by a person employed by contractors who farm the privilege.

Kadiri shows signs of having at one time been a Musalmān town. Though the existing buildings bear no trace of Muhammadan architecture, for two miles round there is a large number of tombs and mosques, mostly decayed but some still well preserved. The place was formerly the seat of a local chieftain. When Munro took over the country he sent for the chief to settle with him the amount of revenue he was to pay. The man refused to come, so a detachment was sent against him. They surprised the fortified temple in which he had taken post, but he escaped in the confusion. His possessions were, however, confiscated. Since the town became a station on the South Indian Railway, it has increased in importance as a trade centre. A brisk business in grain is transacted. There is a branch of the London Missionary Society.

Kadod.—Place of Hindu pilgrimage in the Broach tāluka of Broach District, Bombay, situated in 21° 44′ N. and 73° 8′ E., on the right bank of the Narbadā, about half-way between the city of Broach and Suklatīrtha. The site of the fair is a very small hamlet with only twelve houses and a population (1901) of 53. The ceremonies, which occur once in every nineteen years when Vaishākh (April-May) happens to be

the intercalary month, are in honour of Mahadeo, under the name of Koteshwar or Kotilingeshwar, and last for a whole month. Mr. Williams in his Memoir on Broach mentions that one of the periodical gatherings. took place in 1812. In that year the total number of visitors was estimated at 200,000, and the most perfect order and good conduct are said to have been maintained by the crowd. In 1860 people began to collect on April 13, and all was not over till May 11: the greatest attendance at any one time was estimated at 100,000, and the total throughout the whole month at 500,000. The last fair was held in 1888, when the bed of the river was crowded with lineams, which the people in many cases carried away to their homes. During the time of the fair the pilgrims live in sheds and temporary huts. The Narbada flows close by the site of the fair; but as the gathering takes place in the hot season, and below the limit of the tide, fresh water is hard to obtain. There is a temple at Kadod consisting of one chamber about 11 feet square, and entered by a door 5 feet 2 inches high and 2 feet 3 inches wide.

Kadoli.- Petty State in Mani Kantha, Bombay.

Kadūr District. - District in the west of the State of Mysore, lying between 12° 55′ and 13° 54′ N. and 75° 5′ and 76° 22′ E., with an area of 2,813 square miles. It is bounded on the north by Shimoga District; on the east by Chitaldroog and Tumkūr Districts; on the south by Hassan District; and on the west by the South Kanara District of Madras.

The main part of the District is composed of the most mountainous region within the limits of Mysore. Bordered on the west by the mighty Ghāt range, rising at this part into some of the loftiest peaks between the Himālayas and the Nilgiris; supporting on its centre the stupendous barrier of the

Bābā Budan chain, of even superior elevation; between these towering masses covered with a complete network of lofty hills whose altitude at certain points, as in the grand Merti peak of Kalasa, renders them conspicuous landmarks even in this region of heights, while ranges of more modest pretensions extend throughout the north and east—this District, with a slight exception castwards, may truly be described as pre-eminently the Malnād or 'highland country.' Nor are these mountain tracts wanting in those charms of wood and water which tend to soften the harsher features of so rugged a landscape. For though the summits rear themselves barcheaded into space, the slopes are thickly clad with primaeval forest, through which the shining streams thread their often headlong way, fertilizing the narrow valleys and open glades, till their waters descend to the level of the larger rivers, flowing in steep and sunken channels, whence issue dense mists that cover the face of the country, only lifting as the heat of the morning sun increases

in power. In these vast solitudes the habitations of man are few and far between. A single homestead, hidden amid the luxuriance of tropical vegetation, is often the only sign of human presence for many miles around. Roads there used to be none. All the valuable produce of the country was, and to a great extent still is, transported on the backs of cattle, the rallying sounds from the belled leaders of the drove resounding far and wide. The eastern or Maidān tāluks partake of the general features of that description of country in the other Districts, the transition from Mainād to Maidān being very abrupt and striking on approaching Lakvalli from the west.

The congeries of mountains, so far as they can be reduced to a system, seem to range themselves into a central ridge running north and south, with a great loop or circle on either hand; while at the south-western angle the Western Chats make a bend inwards to the east, marking the initial point of the line which divides the northern from the southern waters of Mysore. The main ridge spoken of above commences at Ballalravandurga, and passing east of Mertigudda and Koppadurga, separates the basin of the Bhadra from that of the Tunga. and runs up towards Mandagadde, connecting with the central range of Shimoga District. On the west of this ridge is the valley in which Sringeri stands, enclosed with a girdle of mountains; while to the east of it, beyond the right bank of the Bhadra, is the Jagar valley, completely environed with the HAHA BUDAN MOUNTAINS. The highest point in the District, and in Mysore, is Mulainagiri in the Bābā Budans. which rises to 6,317 feet above the sea. In the same group, Bābā-Budan-giri is 6,214 feet, and Kalhattigiri 6,155. The loftiest peak in the Western Ghāts is the KUDREMUKH or 'horse-face' mountain, so called on account of its appearance from the sea, to which it presents a landmark well-known to navigators on the west coast. Its height is 6.215 feet. Of other conspicuous points, the grand Ballalravandurga is 4,040 feet, Gangāmūla in the Varāhaparvata 4,781, Woddingudda 5.006. Lakkeparvata 4.662. The superb hill of Kalasa, called the Mertigudda, situated in the heart of the mountain region to the west, is 5,451 feet. Kanchinkaldurga is 4,081 feet, and Sakunagiri 4,653.

The principal rivers are the twin streams, the Tunga and Bhadra. They both rise at Gangāmūla in the Varāhaparvata in the Western Ghāts. The Tunga flows north-east past Sringeri, and then turns north-by-west to Shimoga District. The Bhadra runs east past Kalasa, and then with a north-easterly course across the western opening of the Bābā Budan horseshoe, receives the Somavāhini from the Jāgar valley on the east, and passes on to Shimoga District. On the east of the Bābā Budans the Gaurihalla and Avati are twin streams, rising near Mulainagiri. The first expands into the Ayyankere Lake near Sakkarepatna, and taking the name of Veda runs north-east to Kadūr.

The other, the northern stream, forms the large Madaga tank: and the two, uniting near Kadûr town, continue under the name of Vedavati into Chitaldroog District.

The Shimoga schistose band extends to the southern boundary of the District, and spreads from near Kadur town to the edge of the Western Ghāts, where it forms much of the high Ghāt country culminating in the Kudremukh. From this point the western boundary is probably continuous up to Anantapur (Shimoga District). At Kudremuch the schistose beds are nearly horizontal, with a slight dip to the north: the scarp on the southern side of the mountain, descending to South Kanara, displays a series of Dharwar rocks about 5,000 feet in thickness, composed largely of trap flows, with some beds of micaceous and other schists, and resting unconformably on the denuded surface of the Archaean rocks below. On the eastern side of the band, near Ajjampur, the rocks dip generally to the east. To the south and west of Tarikere large masses of chloritic schists occur; and underlying these to the south is a great thickness of trap flows, forming part of the Santaveri and Bābā Budan mountains. The trap flows are disposed in a very flat anticlinal curve, and to the west are seen to be overlaid by a great thickness of dark schists, with haematite bands and quartzites overlying these again. In the country around Ajjampur and Tarikere masses of conglomerate are developed, consisting chiefly of large boulders and pebbles of granite in a quartz-felspar-chlorite matrix: these pass through various gradations into grits, quartzites, and chloritic schists.

At the extreme heights of Mulainagiri and Kudremukh the mountains are clothed with grass and herbs, but are generally bare of trees. The plants of the west of Mysore and of Coorg are nearly all found in this alpine District, in addition to such as Lysimachia deltoides, Anemone rivularis, Ranunculus diffusus, Cinnamomum Wightii, with other genera and species far too numerous to mention.

At Chikmugalür, the head-quarters, the mean annual temperature is between 72° and 73°, the daily range being about 20°. The temperature of the Malnād often falls much lower, the cold in the early morning at Christmas time being very sharp. Malarious jungle fevers are always prevalent at certain seasons, and neither Europeans nor natives are exempt from attacks. The average annual rainfall at Chikmugalür is variously stated at from 36 to 42 inches. But the country lying within the Western Ghāts has a far heavier fall. The annual average at Koppa is given as 122 inches, and at Mudgere as 103. At Hariharpur 166 inches fell in 1874; at Mudgere 194 inches in 1882; and at certain coffee estates in that tāluk 145 and 156 inches have been received in a year. The fall is heaviest in June, July, and August, there being 43 inches in July alone.

The west was from an early period subject to the Kadambas, and the

remainder of the District to the Gangas. About the eighth century the Santara kingdom was established at Pomburchcha History. or Humcha in Shimoga District. The Santaras extended their rule southwards as far as Kalasa in this District, and at a later period made their capital at Sisila or Sisurali at the foot of the Ghāts in Mudgere. Eventually their capital was at Kārkala in South At one time they acknowledged the supremacy of the Chālukyas, and were stanch Jains. But under Vijavanagar rule they became Lingayats, and were known as the Bhairarasa Wodevars. Meanwhile, the Hoysalas arose at the beginning of the eleventh century, their original seat being Sosevur, now Angadi in the Mudgere tāluk. They were supreme throughout Mysore and beyond from the twelfth to the fourteenth century, when they were overthrown by Musalman invasions from the north of India. The Vijavanagar empire was founded in 1336, and its success at first was greatly due to the aid given by the head of the Sringeri math, originally established by the reformer Sankarāchārya in the eighth century. In consequence of this aid the capital of the new empire was called Vidvanagara, after Vidvaranya or Mādhava, its first minister, who was also the head of the math. Vidvanagara in course of time passed into the form Vijavanagara. After the fall of Vijayanagar, the Keladi chiefs of Bednur assumed independence, and restored the possessions of the Sringeri math. the seventeenth century Siyappa Naik of Bednür overran many parts of the District. But he was opposed by Mysore: and in 1604 a treaty was signed between the two powers, by which the latter gained nearly the whole of the District, and Haidar Ali's conquest of Bednür in 1763 completed its inclusion in Mysore. In the east, Tarikere was the seat of a line of feudatory chiefs driven out of Basavāpatna in Shimoga District by the Bijdnur invasions of the seventeenth century. When, in 1830, a rebellion broke out in the Nagar country, owing to the misrule of the Rājā, the Tarikere chief was one of the first to escape from Mysore and join the rebels. The result was the extinction of this line of chiefs. The opening out of the inaccessible Malnad country in the west by roads at the end of last century has secured the peace of that wild part.

The most important archaeological feature is the Amritesvara temple near Tankere, erected in the twelfth century, under the Hoysalas. Some interesting Jain temples are represented by the ruins at Sosevur or Angadi, the place of origin of the Hoysalas, which contain fine specimens of carving. The Vidyāsankara temple at Sringeri is an effective building, in the Dravidian style of Vijayanagar. The inscriptions of the District have been translated and published.

The population at each Census in the last thirty years was: (1871)

310,176, (1881) 293,822, (1891) 332,025, and (1901) 362,752. The decrease in 1881 was due to the famine of 1876-8.

By religion, in 1901 there were 326,060 Hindus, 18,144

Musalmans, 12,205 Animists, 3,888 Christians, and 1,554 Jains. The density of population is 129 persons per square mile, that for the State being 185. The number of towns is 10, and of villages 1,352.

The following are the principal statistics of population in 1901:-

| Taluk | | Area in square i | Towns | V distriction of the second of | Population | Population per l | Percentage of variation in population be- | Number of persons able to read and write. |
|----------------|-----|------------------|-------|--|------------|------------------|---|--|
| · Kadůi 🕝 | | 571 | 3 | 317 | 80,904 | 142 | 4 12-0 | 4,068 |
| Chikmugalür | | 638 | - 1 | 235 | 90,681 | 142 | + 6.6 | 5,882 |
| Mudgere . | | 435 | 1 | 137 | 46,212 | 107 | +117 | 3,284 |
| Корра | . , | 657 | 3 | 158 | 54,627 | N3 | + (वं | 3-145 |
| Sringeri jägii | | 44 | 1 | 250 | 10,656 | 344 | + 16-3 | 1, 116 |
| larikere . | ٠, | 468 | 2 | 236 ; | 79,472 | 170 | + 12-5 | 4.392 |
| District tota | 1 | 2,813 | 10 | 1,352 | 362,752 | 149 | + 9-1 | 21,187 |

NOTE -In 1902 3 a transfer of 23 square miles was made from the Kadus taluk to Chitaldroog District.

As regards castes, Lingāyats number 70,000; the outcaste Holeyas and Mādigas, 56,000 and 13,000; Wokkaligas or cultivators, 50,000. Of Brāhmans there are 18,000. Two-thirds of the Musalmāns are Shaikhs, 12,000. Of nomads, Lambānis number 8,600; Koramas, 2,000; and Iruligas, 1,200. By occupation, 70-3 per cent. are engaged in agriculture and pasture, 12-3 per cent. in unskilled labour not agricultural, and 6-9 per cent. in the preparation and supply of material substances.

There are 3,888 Christians in the District, of whom 3,666 are natives. The Roman Catholics and Wesleyans have stations at Chikmugalür and visit other parts.

Along the south of the Bābā Budan mountains is a rich tract of black cotton soil, whose fertility, enhanced by the command of an unfailing supply of water from the hill streams, is said formerly to have given to the plain of Chikmugalūr

Agriculture.

the name of Honjavanige Sime, or 'land flowing with gold.' The higher tracts of this region are generally gravelly. Black cotton soil prevails also in the neighbourhood of Ajjampur, together with red and gravelly soils. The western parts of Tarikere contain sandy and gravelly soils. About Vegate the earth seems poor and has a white chalky appearance. Farther south the soil is adapted to the cultivation of the coco-nut without irrigation, as in the adjoining parts of Tumkūr and Chitaldroog Districts. The soil of the Malnād bears a general

resemblance to that of the same region extending through the neighbouring Districts north and south.

| The following table gives statistics of cultivation for 1903-4:- | The following | table gives | statistics | of | cultivation | for | 1001-4: |
|--|---------------|-------------|------------|----|-------------|-----|---------|
|--|---------------|-------------|------------|----|-------------|-----|---------|

| | Area | Area in square miles, shown in the revenue accounts. | | | | | | | |
|--------|---------------------------------|--|----------------------------|----------------|----------------------|--|--|--|--|
| Thluk. | lotal. | Cultivated. | Irrigated. | Forests. | Cultivable waste, | | | | |
| Kadur | 536 609 426 658 460 | 20.3 14.4 80 82 178 | 17 42 35 51 18 | 85 4 118 | 85 21 9 16 | | | | |
| Total | a,68y | 686 | 163 | a65 | 159 | | | | |

In addition to the ordinary cereals, pulses, and oilseeds, the following crops call for special notice. The areca gardens, which occupy the moist and sheltered valleys throughout the west, produce the best description of nut in the country, that of Kalasa and its neighbourhood being in especially high repute. The coffee cultivation of Southern India had its origin in this District. It was first introduced by Bābā Budan in the seventeenth century on his return from a pilgrimage to Mecca, when he planted a few berries he had brought with him near his but on the hills that bear his name. But it was not till 1820 that the cultivation extended beyond his garden, and not till twenty years later that European enterprise was first attracted to it. The original plants then put in by Mr. Cannon to the south of Bābā-Budan-giri are still flourishing. Land was soon after taken up for coffee in South Manjarabad, and since 1860 European planters have settled in almost a continuous chain of estates throughout the Malnad. The coffee zone in this District is estimated to cover about 1,000 square miles. The cardamom grows wild in the same parts, but owing to the extension of coffee estates it is no longer plentiful except in the Kalasa and Melban. gadi maganis. Its systematic cultivation has been taken up in some parts with success. Experiments made with cinchona, tea, cotton, and mulberry have not been successful. The area occupied by the various crops in 1903-4 was: rāgi, 172 square miles; rice, 153; coffee, 123; gram, 42; other food-grains, 67; garden produce, 26; oilseeds, 22.

During the twelve years ending 1904 there was advanced for land improvements Rs. 14,500, and for irrigation wells Rs. 7,300.

The area irrigated from channels is 12 square miles, from tanks 54, and from other sources 97. The number of tanks is 4,394, of which 103 are classed as 'major.'

The west of the District contains some of the best forests in the

State. The Lakvalli teak forests have for many years supplied Western Mysore and the Bellary country with that timber. Throughout the Jagar valley and most of the Koppa and Mudgere tāluks, a continuous stretch of valuable forest densely clothes the hill-sides, giving shelter to much coffee cultivation. The State forests cover an area of 144 square miles, 'reserved' lands 124, and plantations 144. The forest receipts in 1903-4 were Rs. 2,08,000, chiefly from sandal-wood.

Gold-mining was begun near Ajjampur by the Kadūr-Mysore Company, but owing to the poor prospects has been suspended. Iron ore is obtained largely and smelted along the hills cast of the Bābā Budan range, and round Ubrāni. Corundum is found in abundance near Kadūr and throughout the east.

The principal articles manufactured are oils and oil-cake, cotton piece-goods, woollen blankets, and glass bangles. Jaggery is also made, and there is some production of iron. A certain amount of catechu or terra japonica is prepared.

Trade and communications.

There are reported to be 300 looms for cotton, 400 for wool, 87 oil-mills, and 201 jaggery and sugar-mills.

The most important exports are coffee, pepper, cardamons, rice and other food-grains, and oilseeds. It is only a quarter of a century since the Malnād began to be opened up by a network of roads, and only since 1889 that the railway has run through a small part of the District. These agencies must certainly effect considerable changes in trade and the transport of commodities. The principal traffic between the Malnād and Maidān tāluks was formerly through five kanaves or passes. namely, Talagudde, Talamakki, Birnahalli, Gantevināyakan, and Sitalmallapan.

The Southern Mahratta Railway from Bangalore to Poona runs through the east of the District, with a branch from Birur north-west to Shimoga, the total length of line being 62 miles. Provincial roads have a length of 250 miles, and District fund roads of 403 miles.

There has been no general famine in the District since that of 1876-8, but the areca gardens have suffered occasionally in periods of drought.

The District is divided into five tāluks: Chikmugalūr, Kadūr, Kadūr, Koppa (including Sringeri jāgīr), Mudgere, and Tarikere. The following subdivisions were formed in 1903, and placed under Assistant Commissioners: Chikmugalūr and Mudgere; Kadūr, Tarikere, and Koppa, with head-quarters at Chikmugalūr.

The District court at Shimoga has jurisdiction over the whole of this District, and the Subordinate Judge's court over a part. There is a Subordinate Judge's court at Chikmugalür for the remaining part, and a Munsif's court at Yadehalli.

· The land revenue and total revenue are shown below, in thousands of rupees:—

| | | | 1850-1. | 1890-1. | 1900-1, | 1903-4. |
|-------------------------------|---|---|--------------|---------------|---------------|---------------|
| Land revenue Total revenue | : | : | 6,92 9,13 | 7:73 12,27 | 8,42 14,46 | 8,11 15,55 |

The revenue survey and settlement were introduced into the east of the District in 1877-8, and into the west in 1880-1. The incidence of land revenue per acre of cultivated area in 1903-4 was Rs. 1-12-10. The average assessment per acre on 'dry' land is R. 0-13-1 (maximum scale Rs. 2-10-0, minimum scale R. 0-0-6); on 'wet' land, Rs. 3-4-0 (maximum scale Rs. 8-8-0, minimum scale R. 0-1-0); on garden land, Rs. 7-4-2 (maximum scale Rs. 18, minimum scale Rs. 1-8-0).

There were eight municipalities in 1903-4--CHIKMUGALÜR, TARIKERE, BIRÜR, Kadür, Yedehalli, Mudgere, Koppa, and Sringeri-with a total income of Rs. 57,000 and an expenditure of Rs. 66,000. There were also two village Unions, Ajjampur and SAKKAREPATNA, whose income and expenditure were Rs. 2,000 and Rs. 7,000. The District and tāluk boards had an income of Rs. 50,000 in 1903-4, chiefly derived from a share of the Local fund cess, and spent Rs. 49,000, including Rs. 33,000 on roads and buildings.

The strength of the police force in 1903-4 was one superior officer, 60 subordinate officers, and 381 constables. There were 7 lock-ups, containing a daily average of 16 prisoners.

In 1901 the percentage of literate persons was 5-9 (10-5 males, 0-6 females). The number of schools increased from 201 with 5,130 pupils in 1890-1 to 292 with 7,324 pupils in 1900-1. In 1903-4 there were 207 schools (95 public and 112 private) with 4,936 pupils, of whom 692 were girls.

Resides the civil hospital at Chikmugalür, there are 14 dispensaries, in which 111,882 patients were treated in 1904, of whom 700 were inpatients, the number of beds available being 36 for men and 22 for women. The total expenditure was Rs. 33,000.

The number of persons vaccinated in 1904 was 4,723, or 13 per 1,000 of the population.

Kadūr Taluk.—Eastern tāluk of Kadūr District, Mysore, lying between 13° 19' and 13° 50' N. and 75° 51' and 76° 22' E., with an area of 571 square miles. The population in 1901 was 80,904, compared with 72,217 in 1891. The tāluk contains three towns, BIRŪR (population, 5,701), Kadūr (3,881), the head-quarters, and SAKKARE-PATNA (1,884); and 317 villages. An area of 25 square miles was transferred to Chitaldroog District in 1902-3. The land revenue demand in 1903-4 was Rs. 1,75,000. On the west lies the complicated

mass of hills (Sakunagiri, 4,653 feet) east of the Bābā Budans, and on the east the Garudangiri (3,680 feet) group. The Vedāvati river runs through the middle in a north-easterly direction. It is formed by the junction of the Veda and Avati, which rise in the Bābā Budans, the former supplying the Ayyankere, and the latter the Madagakere, the two largest tanks in this part of the country. Numerous channels are taken off from dams across these streams, forming an irrigated tract of great fertility. The annual rainfall averages 22 inches. Most of the tāluk is a slightly undulating plain. The waste lands are covered with wild date or babū/ trees, and a considerable area is reserved for grazing, supporting a large number of cattle and sheep. Superior tobacco is grown in the south and west. Coco-nuts are grown without irrigation in low sandy soils. Iron ore is obtained from Hogaribetta in the north-west.

Kadus.—An Upper Burmese tribe inhabiting the central portion of the watershed that separates the Irrawaddy from the Chindwin river. In 1001 the tribe numbered 14.620, nearly all of whom were inhabitants of Katha District. The origin of the Kadus is doubtful; but, judging by their language and habitat, it seems probable that they are descendants of hill tribes who have intermarried with the surrounding Shan and Burman population and have by some means acquired a tribal identity of their own. Their speech is a mixture of Burmese, Shan, and Kachin, but is now gradually dropping out of use, and will doubtless soon become obsolete. In dress the Kadus used to differ somewhat from their neighbours; but only the elder women now adhere to the tribal costume, which consists of a wholly black or darkblue jacket, petticoat, and head-cloth. Burmese dress has become almost universal. The practice of staining the teeth of the women appears to have been followed in the past, but the custom is dving out. The Kadus are Buddhists. They have two main subdivisions, known as the Apwa (male) and the Ama (female), but the distinction has been obliterated by intermarriage. They are believed to be connected with the Saks or Thets, an almost extinct tribe of Arakan. It is possible that they are allied to the Tamans, a probably hybrid tribe of the Upper Chindwin District.

Kāfiristān (literally, 'the country of the infidels').—A mountainous region in Afghānistān, lying due north of Jalālābād, in which district it is now included. Its approximate area is about 5,000 square miles. Its boundaries are the Hindu Kush on the north; the eastern watershed of the Bashgal on the east; the Kunar valley and the Kābul country on the south; and on the west the ranges above the Nijrao and Panjshīr valleys. Kāfiristān consists of an irregular series of main valleys, for the most part deep, narrow, and tortuous, into which a number of ravines and glens pour their torrents. The hills separating

the main valleys one from the other are of considerable altitude, rugged, and difficult. As a consequence, during the winter, Kāfiristān consists practically of a number of separate communities with no means of communication with one another. The country appears to be divided into three main drainage systems—those of the Kao or Alingār; of the Pech or Kāmah, named after the important pass of that name; and of the Bashgal. All these streams ultimately find their way into the Kāhul river.

In Kafiristan every kind of mountain scenery is to be met with. At the lower elevations the hill-sides are covered with wild olives and evergreen oaks. Fruit trees abound—the walnut, mulberry, apricot, apple, and vine—while splendid horse chestnuts and other trees offer pleasant shade in the hot season. As one ascends, the fruit trees disappear, being replaced by dense pine and cedar forests. These in their turn cease—the hills above 9,000 feet are almost bare—but the willow, birch, and jumper cedar are found. Above 13,000 feet no vegetation exists, except rough grasses and mosses. The rivers teem with fish, which, however, no Kāfir will eat. The chief wild animals are the mārkhor, the urrāl, leopards, and bears.

With the exception of a short visit to the upper part of the Bashgal valley by Colonel Lockhart's mission to September, 1885, and of Sir George Robertson's two visits in 1889 and 1890-1, the country has not been penetrated by any Europeans in modern times. The people of the country, styled Käfirs ('infidels') by their orthodox Afghan neighbours, were known to the emperor Bābar as the Siāhposh (* wearers of black raiment). They comprise several more or less inimical tribes, differing from one another in language, dress, manners, and customs; and even their primitive pagan religion afforded no bond of common union. This was a somewhat low form of idolatry, with an admixture of ancestor cult and traces of fire-worship. Their total number probably does not exceed 60,000. Until recent years these mysterious people were popularly supposed to be a fair race, noted for their beauty, and of Graeco-Bactrian origin. As a matter of fact they are by no means fair, their colour being that of the average native of the Punjab : their usual type of feature is good; but their beauty. like many other ideas concerning them, is a myth. Sir George Robertson considers that the present dominant races of Kāfiristān are mainly descended from the old Indian population of Eastern Afghānistān, who refused to embrace Islām in the tenth century, and fled for refuge from the victorious Moslems to the hills. Dr. Grierson, however, holds that the Kafir dialects (which Dr. Trumpp considered to be a 'pure Prakrit') belong to the non-Sanskritic languages of the Indo-Aryan family, and that 'the speakers of these appear to have arrived at their present seats from the north, and not to be colonists

from the south, where that form of Indo-Aryan language which we call Sanskrit became developed 1."

Whatever their origin, the Kāfirs, except in the case of the outlying Sāfis (see Jalālābān), succeeded in resisting all attempts at conversion until the reign of the late Amīr, when Afghān troops overran the country, and brought about its complete subjection. With the exception of the Rāmgulis, who held out for a considerable period, the Kāfirs, who were ill-armed, made but a feeble resistance, and have accepted the Muhammadan religion with little demur. A very small garrison of Afghān troops now suffices to keep the country in order.

There is a small slave population, who are perhaps the remnant of more ancient people subjugated by the lately dominant tribe. The affairs of a tribe are nominally arranged by a consultation of headmen who are known as just: but, as a matter of fact, in ordinary times. nublic business falls into the hands of a few elders. Disobedience to the jast is punished by burning down the offender's house and destroying his property. Theft is punishable by a fine of seven or eight times the value of the stolen property, but the full penalty is seldom exacted. The punishment for adultery is a fine in cows varying from three to six. It is in consequence not uncommon for women to endeavour to entangle men in order to get cows for their husbands. Murder and manslaughter are punished alike. The offender must at once leave his village and become a chile or outcast. His house is burnt by the dead man's family or clan and his property plundered: he must nevermore return to his village except by stealth; and whenever he encounters a member of the dead man's family he must at once conceal himself. This stigma applies not only to the criminal himself, but to his direct descendants and to his children in-law. There are several villages in Kāfiristān which are places of refuge, where slavers of their fellow-tribesmen reside permanently.

Kāfir women are practically slaves, being to all intents and purposes bought and sold as household commodities. The young women are mostly immoral. There is little or no ceremony about a Kāfir marriage. If a man becomes enamoured of a girl, he sends a friend to her father to ask her price. If a price is agreed upon, the man immediately proceeds to the girl's house, where n goat is sacrificed, and then they are considered to be married, though the bride remains with her parents until the full price has been paid. The dead are disposed of in a peculiar manner. They are not buried, or humt, but are deposited in large boxes, placed on the hill-side or in some more or less secluded spot.

Kafirkot.—Ruins in Dera Ismail Khān District, North-West Frontier Province, situated in 32° 30′ N. and 71° 21′ E. The site is also known

¹ Keport on the Census of India, 1901, chap. vii.

as Til Käfirkot or Rājā Sir-kot, and lies a few miles south of the point where the Kurram river joins the Indus, upon a spur of the Khisor hills. The remains consist of extensive lines of bastioned walls built of solid masonry, enclosing an area filled with the débris of ancient dwellings. The remains of four small Hindu temples are relatively well preserved, and their outer faces are decorated with elaborate carvings of stone. For some details see A. Cunningham, Archaeological Survey Reports, vol. xiv, pp. 26, 254, and Dr. Stein's Archaeological Survey Report of the North-West Frontier Province and Baluchistān (1903-5). A similar ruin of the same name exists at Bilot, about 30 miles due south.

Kagal State.—Native State seudatory to the Kolhāpur State, within the Political Agency of Kolhāpur and the Southern Marāthā Country, Bombay, lying between 16° 30' and 16° 35' N. and 74° 20' and 74° 25' E. See KOLHĀPUR STATE.

Kāgal Town.—Chief town of the feudatory jāgīr of the same name in Kolhāpur State, Bombay, situated in 16° 34′ N. and 74° 20′ E., 10 miles south-east of Kolhāpur city. It hes in the valley of the Dudhganga about a mile south of the river, surrounded by rich garden land and shaded by fine old mango-trees. Population (1901), 7,688 There are ruins of mosques and temples. The old fort was destroyed by Jaswant Rao Sindhia of Kolhāpur in 1780, and a new fort was built about 1813 by Hindu Rao Ghatge. Of the public buildings lately raised at a cost of about one lakh, the most important are three large resthouses, three temples, one of which contains the kārbhārī's office, and water-works from which pipes supply the town reservoirs with water. Every year in Kārtik (October-November) a fair is held in honour of Gaibi Pir, at which the chief spends about Rs. 2,000. The fair is attended by 10,000 peopte from Kolhāpur and the neighbouring villages.

Kagan (Khigan). Mountain valley in Hazara District, North-West Frontier Province, penetrating far into the heart of the Himālayan system, and surrounded by Kashmīr territory on every side except the south. The valley has an area of 800 square miles, and is 60 miles in length, with an average breadth of 15 miles. Lofty ranges shut it in on either hand, their summits rising to a height of 17,000 feet. Transverse spurs intersect the valley, which is inhabited by a sparse population. Kagān comprises twenty-two rakhs or forest and grazing Reserves, with a total area of 90 square miles, while the area of 'reserved' and unreserved forest is 457 square miles. The rights of cutting grass and grazing cattle are leased out annually. The Forest department only fells timber, which is launched into the river Kunhār, caught at different timber depòts, and rafted to Jhelum. The river Kunhār forces its way through a narrow central gorge to join the Jhelum after draining the entire valley. The Kagān valley forms the northernmost extension of

British India, and stretches far up into the mountain region. Its open mouth turns towards the main body of Hazāra District. The inhabitants consist almost entirely of Muhammadan Swātis and Gūjars. Kāgān village is situated in 34° 46' N. and 75° 34' E.

Kahalgaon.—Town in Bhagalpur District, Bengal. See Col-

Kahlur. - One of the Simla Hill States, Punjab. See BILASPUR.

Kahnaur.—Town in the District and tahtil of Rohtak, Punjab, situated in 28° 45' N. and 76° 32' E., 11 miles south of Rohtak town and 15 miles north west of Thaiiar. Population (1001), 5.024.

Kahror.—Town in the Lodhran tahsil of Multan District, Punjab. situated in 20° 37' N. and 71° 56' E., on an old bed of the Beas known as the Bhatari nullah, about 8 miles from the present right bank of the Sutlej. Population (1901), 5,552. Being built on undulating ground. it is more picturesque than most Puniab towns. The town is said to have been founded by Kailun, chief of Jaisalmer, at the end of the fourteenth century; its identification with the Karūr where Vikramāditva is said to have defeated the White Huns is extremely doubtful, most remarkable building in the town is the shrine of Ali Sarwar, a Saiyid of Delhi, who came to Kahror in 1204. The municipality was created in 1867. The income and expenditure during the ten years ending 1002 a averaged Rs. 4.000. In 1003-4 the income was Rs. 4.100, chiefly from octroi; and the expenditure was Rs. 4.100. The town has a vernacular middle school, maintained by the municipality, and a dispensary. It is the trade centre for the Sutlei tahsils of the District, dealing especially in wool, piece-goods, and wheat, and has a local reputation for the manufacture of coverlets of hand-printed cotton.

Kahūta.—Eastern tahsīl of Rāwalpindi District, Punjab, lying in the Lower Himālayas, between 33° 18' and 33° 48' N. and 73° 15' and 73° 39' E., with an area of 457 square miles. Its eastern border rests upon the Jhelum river. The whole of the tahsīl except the southwest corner lies in the hills, which in the north reach an elevation of over 6,000 feet. The population in 1901 was 94,729, compared with 92,372 in 1891. It contains 231 villages, of which Kahūta is the head-quarters. The land revenue and cesses amounted in 1903-4 to 1.2 lakhs.

Kalj.—Former tāhik of Bhir District, Hyderābād State. See Amba Tāluk.

Kail.—Ancient port in Tinnevelly District, Madras. See KAYAL

Kailang.—Village in Kangra District, Punjab. See Kyelang.

Kallwara. - Town in Udaipur State, Rajputana. See Kelwara.

Kaimganj Tahsil.—North-western tahsil of Farrukhabad District, United Provinces, comprising the parganas of Kampil and Shamsabad West, and lying along the southern bank of the Ganges, between 27° 21' and 27° 43' N. and 79° 8' and 79° 37' E., with an area of 363 square miles. Population increased from 143.557 in 1801 to 168,606 in 1001. There are 207 villages and two towns: KAIMGANI (population, 10, 169), the taksil head-quarters, and SHAMSABAD (8, 275). The demand for land revenue in 1903-4 was Rs. 2,10,000, and for cesses Rs. 36,000. The density of population, 464 persons per square mile, is below the District average. The tahsil contains a larger tract of lowland than any other in the District except Aligarh; but the greater part of it is situated in the uplands. The Bagar river winds through the southern portion, and on either bank stretches a wide expanse of sandy land, which extends on the north to near Kampil. North and west of this is a belt of fine yellowish loam, tilled by Kurmis, and famous for its sugar-cane, and near the towns of Kampil. Kaimgani, and Shamsābād for its tobacco, which acquires a special flavour from the brackish water of the wells. The area under cultivation in 1903-4 was 226 square miles, of which 72 were irrigated. The Fatehgarh branch of the Lower Ganges Canal supplies irrigation through the centre of the uplands, and the area irrigated from canals is slightly larger than that supplied by wells. There are several considerable swamps, from which water is also taken; but a good deal has been done to improve the drainage.

Kaimgani Town.—Head-quarters of the tahsil of the same name in Farrukhābād District. United Provinces, situated in 27° 30' N. and 70° 21' E., on the Cawnpore-Achhnera Railway, and also at the terminus of a metalled road from Farrukhābād city. Population (1901). 10.169. It was founded in 1713 by Muhammad Khān, first Nawāb of Farrukhābād, who named it after his son, Kaim Khān. It is the centre of a group of villages inhabited by a colony of Pathans who settled here early in the seventeenth century. The best known of these villages is Matt Rashidābād, now a great tobacco field, about a mile north of Kaimganj. The Pathans of this neighbourhood are still noted for the number of men they supply to the native army. In 1857 the tahsili was ineffectually besieged for a time by a band of fugitive insurgents from Kalpf. The town consists chiefly of a wide metalled bazar, about a mile long, from which branch many narrow unmetalled lanes. It contains a tahsid, munsifi, and dispensary. Kaimganj is administered under Act XX of 1856, with an income of about Rs. 2,000. There is a considerable trade in tobacco, which is largely grown in the neigh-The old manufacture of swords and matchlocks has dwindled down to a trade in ordinary knives and betel-nut cutters. The town school has 193 pupils, and three primary schools 63.

Kaimur Hills.—The eastern portion of the Vindhyan range, commencing near Katangi in Jubhulpore District of the Central Provinces

(23° 26' N. and 70° 48' E.). It runs a little north of east for more than 200 miles to Sasarām in Bihār (24° 57' N. and 84° 2' E). The range, after traversing the north of lubbulpore District and the southeast of Maihar State, turns to the east and runs through Rewah territory, separating the valleys of the Son and Tons rivers, and continues into Mirzapur District of the United Provinces and Shahabad of Renoal. Its maximum width is so miles. In the Central Provinces the appearance of the range is very distinctive. The rock formation is metamorphic and the strata have been upheaved into an almost vertical position, giving the range the appearance of a sharp ridge. In places the range almost disappears, being marked only by a low rocky chain. and in this portion it never rises more than a few hundred feet above the plain. The range enters Central India at Jukehi in Maihar State (23° 29' N. and 80° 27' E.), and runs for 150 miles in a north-easterly direction, forming the northern wall of the Son valley and overhanging the river in a long bold scarp of sandstone rock, from which near Govindgarh a branch turns off to the north-west. The range here attains an elevation of a little over 2,000 feet. In Mirzapur the height of the range decreases in the centre, to rise again to over 2,000 feet at the rock of Bijaigarh with its ancient fort. Interesting relics of prehistoric man have been found in the caves and rock-shelters of the hills here, in the form of rude drawings and stone implements. In Shāhābād District the summit of the hills consists of a series of saucer-shaped valleys, each a few miles in diameter, containing a deposit of rich vegetable mould in the centre and producing the finest crops. general height of the plateau is here 1.500 feet above sea-level. sides are precipitous, but there are several passes, some of which are practicable for beasts of burden. The ruined fort of ROHTAS is situated on these hills. The rocks throughout consist principally of sandstones and shales.

Kain.—River in Bundelkhand. See KEN.

Kaintira.—Village in Athmallik, one of the Orissa Tributary States, Bengal, situated in 20° 43′ N. and 84° 32′ E., on the north bank of the Mahānadī. Population (1901), 1,567. Kaintira is the principal village in the State and contains the residence of the chief.

Kaira District (Kheda).—District in the Northern Division of the Bombay Presidency, lying between 22° 14' and 23° 7' N. and 72° 30' and 73° 23' E., with an area of 1,595 square miles. It is bounded on the north by Ahmadābād District, Mahī Kāntha, and the small State of Bālāsinor in the Rewā Kāntha Agency: on the west by Ahmadābād District and the State of Cambay on the south and east by the river Mahī and the Gaikwār's territory (Baroda). The breadth of the District varies from 25 to 40 miles.

Excepting a small corner of hilly ground near its northern boundary,

and in the south-east and south, where the land along the Mahi is furrowed into deep ravines, Kaira forms one unbroken plain sloping

Physical aspects.

gently towards the south-west. The north and north-east portions are dotted with patches of rich rice land, broken by untilled tracts of low brushwood.

The centre of the District, called the *charotar*, or 'goodly' land, is very fertile and highly cultivated; the luxuriant fields are surrounded by high-growing hedges, and the whole country is clothed with clusters of large shapely trees. Westward, this belt of rich vegetation passes into a bare though well-cultivated tract of rice land, growing more barren and open to the south till it reaches the maritime belt, whitened by a salt-like crust, on the Gulf of Cambay.

The Mari, the largest river of Kaira, and the third in importance of the Guiarat rivers, flows for nearly 100 miles along the east, south-east, and south boundary of the District. This 100 miles may be divided into three sections: first a stretch of 40 miles over a rough and rocky bed, then 10 miles of a still stream with a sandy bed, and lastly 45 miles of a tidal river. The fords in the District are at Kāvi, Dehvān, Gaina, Khānpur, and Ometa. At Verākhāndi, the limit of the flow of the tide, the bed is in the dry season 500 yards wide, the stream 120 yards, and the average depth 11 feet. A small 'bore' rises in the estuary at springs and dashes itself on the Dehvan. The SABARMATI, the fourth largest river in Guiarat, flows for 14 miles along the western boundary, and is much used for irrigation. The Shedhi, the chief drainage line of the plain between the Mahi and the Sabarmati, being charged with soda, is not adapted for irrigation. The Khāri, one of five smaller streams, waters a large area by means of canals and sluices. but fails at the end of the rice season, that is to say about November,

The District has not yet been geologically surveyed in any detail. The Kaira plain is, with the exception of the few sandy hills and rocks in Kapadyanj and Thasra, a deep bed of alluvium, most of it the débris of the gneiss and metamorphic limestones of the Arāvalli Hills. In the raised tract along the banks of the Mahi, water is found only at a depth of from 80 to 110 feet. Away from the river, wells have their springs from 40 to 60 feet deep, rising through strata of earth mixed with limestone nodules, alternating with sand overlying layers of limestone. From this limestone, when tapped, water rises to within 25 feet of the surface. The age of these strata is not known. They may be Tertiary or Cretaceous. Formerly, in parts of the District, water was to be found at a higher level. Many old wells are said to have been made useless by the earthquake of 1819, which lowered all the springs from 5 to to cubits. In some cases deeper sinking has overcome the evil; in others, a fine stratum of quicksand makes farther cutting dangerous. The hot springs of Lasundra, 10 miles south-east of Kapadvanj, rise to the surface in ten or twelve cisterns, the hottest reaching a temperature of 115°. Like those at Tuva in Godhra, 20 miles to the south-east, and at Anāval, 150 miles south, the Lasundra springs are slightly sulphurous, and thought to be useful in skin diseases.

The District has no forests or forest lands, the trees either standing singly or in small groves. In the north the mahuā (Bassia latifolia), and in the south the mango and the limbdo or nīm (Melia Azadirachta), are the commonest kinds, while the custard-apple, sitāphal (Anona squamosa), is abundant all over the District. The rāyan (Mimusope hexandra), the kanaj (Vimus integrifolia), the kanaj or kaniji (Pongumia glabra), and the aduso (Ailanthus excelsa), also occur freely distributed. Mangoes are sent in considerable quantities to Baroda, Ahmadābād, and Kāthiāwār. During the hot season the fleshy corolla of the mahuā flower is eaten by the poorer classes and by cattle, and from it is distilled a favourite liquor. Mixed with whey, the berries of the rāyan form, during the hot season, the staple food of a large section of the Kolī population.

Tigers and leopards, which haunted the bed of the Mahi till a few years ago, are now rarely heard of, owing to the spread of tillage and their pursuit by European sportsmen. Hyenas, jackals, foxes, wild hog, antelope, gazelle, and hares are common. Of game-birds, snipe, quail, and many species of duck abound; while geese, bustard, partridge, and florican may occasionally be shot. Poisonous snakes are common. Mahseer and other fresh-water fish are caught in the waters of the larger rivers.

To Europeans the climate is trying. From November to March the air is pleasant and bracing. By the people of the District the *charotur* or central portion is considered healthy. The rainfall varies but slightly in different parts of the District. The annual fall is 38 inches in the Nadiād, Borsad, and Anand tālukas, while it averages about 34 inches over the whole District. The average temperature is 82°, the maximum being 116° and the minimum 43°.

Kaira District is made up partly of lands acquired from the Peshwä in 1802 by the Treaty of Bassein, partly of territory transferred by the Gaikwär of Baroda in 1803 and 1817. Räjputs reigned in Kaira from 746 to 1290, and, excepting perhaps Thäsra and Kapadvanj, the District formed part of the directly managed portions of Anhilvāda. At the end of the fourteenth century Kaira passed to the Muhammadan kings of Ahmadābād, and in 1573 was transferred to the Mughals. In 1720 the Marāthās appeared, and from that time to the fall of Ahmadābād in 1752 the District was the scene of perpetual struggles between the Marāthās and the Muhammadan viceroys. The Marāthās were victorious, and in 1753 the District was shared between the Peshwä and the Gaikwār.

Part of Kaira came into British possession in 1803, and the rest in 1817. Under the terms of the Treaty of Bassein (December 31, 1802), the Nāpād group of villages was handed over by the Peshwā. In 1803 the Gaikwār ceded Nadiād, Mātar, and Mahudha, as well as the fort and town of Kaira, for the maintenance of troops supplied by the British Government. Again, by treaty dated November 6, 1817, the Gaikwār ceded Mehmadābād, Alīna, Thāsra, Antroli, and half of the town and district of Petlād to provide for the payment of additional troops. At the same time, Kapadvanj and Bhālaj were received in exchange for the district of Bijāpur in Northern Gujarāt.

The territories acquired in 1803, together with Dholka, Dhandhuka, Ranpur, and Gogha, which now form part of Ahmadabad District, remained in charge of the Resident at Baroda from the date of their cession till May, 1805. During this time a European Assistant and native officers administered, according to local usage, the police and justice of the country. In 1805 a Collector was appointed, with jurisdiction over the ceded tracts, both those to the north of the Mahi and those to the west of the Gulf of Cambay. In the same year the town of Kaira was selected as a large military station. The increase in the British possessions consequent on the treaty of November, 1817, necessitated fresh administrative arrangements. The territory north of the Mahl was, from January 1, 1818, divided into the two Districts of Kaira and Ahmadabad. In 1820 Kapadyani was included in Ahmadabad, and Kaira became a sub-collectorate under the Collector of Ahmadābād. In 1833 Ahmadābād and Kaira were again separated. Since then, more than once, villages have been transferred from one District to the other, and the original irregular groups and collections of villages have been gradually consolidated into seven tālukas.

Throughout the District are Hindu and Musalman buildings of interest. The rausa of Mubarak Saiyid (died A. H. 966) at Sojale is one of the linest of the latter. Kapadvanj contains some buildings of great antiquity: a beautiful arch described by Forbes in his Rās Mālā, a kund or basin of consecrated water, a mosque, and a well; and an underground temple of Mahādeo which has recently been explored for the first time. It is also remarkable for a fine Jam temple recently built.

In 1846 the population of Kaira District was returned at 566,513. By 1872 it had risen to 782,938. In 1881 the population was

Population. 805,005: in 1891, 871,794: and in 1901, 716,332. The decrease of 18 per cent. during the last decade was due to the famine and cholera of 1899-1900. The District is divided into 7 lālukas, with area and population (1901) as given in the table on the next page.

The number of towns in the District in 1901 was 11, and of villages 598. The chief towns are NADIAD, KAPADVANJ, KAIRA (the

head-quarters), ANAND, and MEHMADĀBĀD. Owing to the large fertile areas which the District comprises, it is the most thickly populated in the Presidency. The most populous tālukas are Nadiād, Borsad, and Anand. Gujarāti is the vernacular. Classified according to religion, Hindus in 1901 numbered 614,146, or 85 per cent. of the total; Muhammadans, 68,187, or 9 per cent.; Christians, 25,210; Jains, 8,469; and Pārsīs, 209.

| Täluks | Area in square miles | Num | per of | Population | Population per square mile. | Percentage of variation in population be- tween 1891 and 1991. | Number of persons able to read and write. |
|---|---|-------------------|----------------------------------|---|---|--|--|
| Kapadvanj Mehmadābād . Thāsra Mātar . Nadiād . Anand . | 279 171 257 216 224 244 254 | 1 1 2 1 2 3 3 1 1 | 87 66 96 81 91 83 | 75,258 75,926 73,980 61,522 148,452 143,305 137,889 | 270 444 288 285 663 587 673 | - 16 - 18 - 22 - 13 - 13 - 16 - 15 | 5,591 7,007 6,154 4,884 16,099 18,336 |
| District total | 1,595 | \vec{n} | 598 | 716,332 | 449 | -18 | 70,702 |

The following eastes are of importance: Brāhmans, 38,000; Vānis, 22,000, Rājputs, 21,000. Chamārs, 13,000; Kunbis (agriculturists), 127,000; Kolīs (agriculturists), 252,000. Dhers or Mahars, 21,000. The Muhammadans include 16,000 Pathāns and 10,000 Bohrās.

The Lewa and Kādya Kunbīs are the best farmers in the District. and a sober, peaceable, and industrious race. The Kunbis of certain villages are held in honour as descended from the leading men among the original settlers in Gujarat. The Rainuts, with the exception of a few who, with the title of Thakur, still retain landed estates, have sunk into the mass of ordinary peasant proprietors. The Kolis number 252,000, or 35 per cent, of the total population. Idle and turbulent under native rule, they are now quiet, hard-working, and prosperous. Among Hindu low castes, the Dhers are distinguished for industry and good behaviour. They formerly lived in comfort by weaving coarse cotton cloth, but the competition of the Bombay and local mills is now shutting them out of the market. Of the Musalman population, about one-third, under the name of Saivids, Shaikhs, Pathans, and Mughals, represent the foreign conquerors of Gujarat. The remainder, called Momnas, Bohrās, Tais, and Ghānchis, are the descendants of Hindus converted to Islam under the Ahmadabad kings. Musalmans of the first class, employed chiefly as cultivators or in Government service as police or messengers, are for the most part poor. Musalmans of the second class are artisans, chiefly weavers and oil-pressers, and are hardworking and well-to-do. Most of the population is dependent on

agriculture, which supports 67 per cent. of the total. General labour supports 4 per cent., and the remainder are distributed between commerce and trade, personal service, &c. Over 15,000 are engaged in cotton-weaving.

At the Census of 1901 the native Christian population of the District was returned at 25.121, showing an increase of no less than tenfold since 1801. This may to some extent be the result of conversions to Christianity during the famine: but it is noteworthy that the Salvation Army has been active in Kaira for some years, and that a large number of the Christians are Salvationists, mainly converted from the lower classes. Besides the Salvation Army, the following missions are at work in the District; the Irish Presbyterian, with stations at Borsad and Anand, which maintains 2 Anglo-vernacular and 46 vernacular schools, 4 orphanages, and a hospital at Anand, and has settled 1.1 colonies of converts on waste land procured from Government; the Methodist Episcopal at Nadiad, which maintains 16s schools, an industrial school, an orphanage, and a dispensary, and which undertook extensive relief operations in the famine of 1000; the Christian Alliance in the Matar tāluka, which maintains o schools and an orphanage and industrial school at Kaira; and the Roman Catholic at Anand, which maintains to schools, an industrial school, and an orphanage and dispensary. The Salvation Army maintains 112 schools and a well-conjpact hospital at Anand, which is very popular among all classes. Khāsivādi, 'the beautiful garden,' in Borsad town was the first to show a leaning towards Christianity, two families having been converted there in 1847. There is an English church at Kaira known as St. George's Church, established about 1825.

The soil belongs to four classes: light, medium, black, and alluvial, with subordinate varieties. The light soil is the most common,

Agriculture. varying in quality from the loose-grained yellow sand of the fields near the Sābarmati and the Mahi, to a rich lighter mould common in the central tālukas, and found to perfection in the south-west corner of Mātar. The medium soil is fairly well distributed over the whole District. The black soil of Kaira is poor and generally contains either soda or limestone. Alluvial soil or bhātha is found near the Vātrak river and is a rich garden mould.

The greater part of the land of the District is *ryotwari* (1,075 square miles, or 88 per cent. of the total area), about 7 per cent. being held on *udhad* or quit-rent tenure. The main statistics of cultivation in 1903-4 are shown in the table on the next page, in square miles.

The chief crops, with the area under each in square miles (1903-4), are: hipra (313), kodra (162), rice (115), jowār (91), and wheat (18).

Cotton is grown in small patches (10 square miles). The finest tobacco in Western India is grown in Kaira, occupying 24 square

miles, mostly in the Nadiad, Borsad, and Anand talukas; but the cultivators, though skilful in rearing the plant, know nothing of its preparation for the European market. Two varieties of tobacco are grown. the talabdi or local plant and the khandeshi or plant introduced from Khandesh. An irrigated field yields twice as large a crop as a dry one. About the beginning of July, as soon as the first rain has fallen, the seed is sown on a well-prepared plot of ground, and after about a month and a half the seedlings are ready for transplantation. field is scored in squares by a heavy, long-toothed rake, and at each point of intersection a seedling is set. The plant takes about five and a half months to ripen. As soon as it is ready, it is carefully examined. and divided into two classes. kalto and jardo: the kalio is cut down. stalk and all, and laid out to dry; the sardo is left a little longer, and then the leaves are stripped off the stem. A moth caterpillar is the chief enemy of the plant. Tobacco-growing is a costly process, and can be undertaken only by substantial cultivators. It has been calculated that the cost of growing an acre of plant is Rs. 270, and the profit Rs. 110. Cotton is grown only from the local plant, and occupies every seventh furrow in fields sown with ordinary grain crops.

| l'ā/n | ka | | Total area. | Cultnated. | Irrigated | Cultivable waste, |
|---------|-----|------|-------------|------------|-----------|----------------------|
| Kapadya | nj. | | 279 | 162 | | 45 |
| Mehmadi | bād | | 171 | 131 | 5 | 131 |
| Thäsra | | | 257 | 141 | 1 | 52 |
| Mātar | | | 216 | 141 | 3 | 34 |
| Nadiād | | | 224 | 191 | 10 | . 6 |
| Anand | | . ! | 244 | 196 | 41 | 23 |
| Horsad | | | 204 | 140 | 12 | 1 |
| | 70 | otal | 1,595* | 1.131 | 37 | 153 |

[.] The area for which statistics are not available is 129 square miles

Several attempts have been made to improve the Kaira cotton, but without success. Indigo was once one of the chief exports from Gujarāt, but by 1827 it had almost ceased to be produced. A later attempt to encourage the growth in Kaira was attended with failure. A Government silk garden was started in 1837, but was closed in 1847. The Nadiād Agricultural Association's small experimental farm has been removed to Kamta, and has practically been handed over to the department of Agriculture, which has enlarged its scope and is providing new buildings. Numerous experiments in the cultivation of tobacco and other staple crops of the District have been made. It has been ascertained in the course of these experiments that a better yield of tobacco is obtained by growing it continuously instead of in rotation, that deep tillage increases the out-turn, and that Sumatra tobacco

cannot be grown. The desi or local tobacco stands first in quality and quantity, and the Belgaum varieties second. In the ten years ending 1903-4, a total of 19.8 lakhs was advanced to cultivators under the Land Improvement and Agriculturists' Loans Acts, of which 7.7 lakhs was lent in 1899-1900, and 8.8 lakhs in 1900-1.

Cattle are imported from Kāthiāwār and Kānkrej in Northern Gujarāt. Some of the largest used to be bred in the District at Bhālaj, and many villages of the Nadiād tāluka are famous for their bullocks. Ponies are bred in the District, but they are not suitable for cavalry remounts. Two Government pony stallions are maintained by the Civil Veterinary department.

Of the total cultivated area of 1,131 square miles, 37 square miles, or 3 per cent., were irrigated in 1903-4. The chief sources of irrigation are 11 minor works, 10,886 wells, and 1,391 tanks. The wells most commonly in use are deep, shallow wells being found only in the Mātar tāluka. The water is drawn up by bullocks in four leathern bags working simultaneously. The ponds are used for irrigating rice lands. After the close of the cold season few of them hold any large supply of water. The Khāri sluice system irrigated nearly 8,800 acres in 1903-4. In 1902 large reservoirs were constructed at Goblaj, Tranja, Nagrama, and Vangroli by famine labour.

Iron ore was at one time worked in the neighbourhood of Kapadvanj. In the bed of the Mājam river, about 15 miles from Kapadvanj, are found varieties of agate and moss-stone. The bed of the Mahi contains masses and boulders of trap; while on its upper course, on the Bālāsmor frontier, rock is plentiful, including trap, with occasional limestone, quartz, and granite.

The opening of steam factories at Ahmadābād and at Nadiād has greatly reduced the demand for hand-spun cotton, once a staple. The

water of the District is thought to be especially communications good for dyeing purposes. Soap and glass are manufactured at Kapadvanj. A steam spinning-mill, established at Nadiād in 1876 at a cost of about 5 lakhs, has 14,568 spindles, which turn out over a million pounds of yarn, and employ 584 persons. Considerable quantities of coarse cloth for home consumption are woven in hand-looms by the lower castes of Hindus. In the larger towns calico printing is carried on by classes known as Bhaysārs and Chhipas.

The chief exports are prints, grain, tobacco, butter, oil, and mahud flowers; the chief imports are piece-goods, grocery, molasses, and dyestuffs. Kaira is particularly noted for its ghi or clarified butter, the export of which is valued at 8 lakhs. The ghi when made is forced into large leathern buttles holding from 60 to 200 lb.

In 1884 there was only one made road in the District. There are

now 166 miles of metalled and 10 of unmetalled roads. Of the former, 13 miles of Provincial roads and 123 miles of local board roads are maintained by the Public Works department. All the watercourses are bridged except the large rivers, and avenues of trees are maintained along 40 miles. New roads were constructed by famine labour in 1000 from Mehmadābād to Dākor and from Borsad to Agas railway station. The whole of the District is connected with Ahmadabad city by metalled roads. The main line of the Bombay, Baroda. and Central India Railway passes through the District from north to south for 38 miles, and a branch line from Anand runs through the Panch Mahāls to Godhra, where it connects with the Godhra-Ratlam Railway, traversing the District for 34 miles. In 1890 another branch line was opened from Anand to Petlad in Baroda territory, and thence in 1901 to Cambay town, thus bringing Kaira into close connexion with the sea This line traverses the District for 6 miles. Ferries ply across the Mahi.

A severe famine took place in 1791-2, when rain fell only once; in 1813-4 there were only two showers of rain throughout the year; in 1825 the later rains failed, and remissions of land revenue to the amount of over 14 lakhs were granted.

On the other hand, the period 1814-22 was marked by heavy floods and rainfall that caused much damage to the country. In 1834 locusts ate up the crops, and remissions amounting to nearly 2 lakbs were sanctioned. In 1817, 1868, and 1871 disastrous storms swept over the District. During the forty years 1836-76, though the rainfall had at times been scanty and the crops failed, no season of famine or even of general scarcity occurred in Kaira. Owing to the scanty rainfall in 1877 (19-13 inches), there was a partial failure of crops, and the poorer people, especially in the Kapadvani and Thasra tālukas in the north-east, suffered some distress, which, however, did not leave behind serious results. In 1800 the monsoon failed and the District was visited by severe famine. In April of the following year nearly 85,000 persons, exclusive of 8,000 dependants, were on relief works, and 15,000 more received gratuitous relief. The number increased to 143,000 by July of the same year, excluding 13,000 dependants and 38,000 on gratuitous relief. The latter reached a maximum of 113,000 in August. It is calculated that there was, during the three years 1000-2, an increase of 112,464 deaths over the yearly average. The loss of cattle in the year 1899-1900 amounted to 233,000. The cost of relief measures in the District, including the Panch Mahals, was over 88 lakhs. Remissions of land revenue to the amount of 35 lakhs were granted in these two Districts. The loans granted to agriculturists in Kaira alone amounted to 19 lakhs.

The District is divided into two subdivisions, in charge of an VOL XIV.

Assistant Collector and a Deputy-Collector respectively, and is composed of the seven tālukas of Anand, Borsad, Kapadvanj, Mātar, Mehmadābād, Nadiād, and Thāsra. The Collector is ex-officio Political Agent for Cambay State and Additional Political Agent for Rewā Kāntha.

For judicial purposes the District is included in the jurisdiction of the Judge of Ahmadābād. There are 5 Subordinate Judges for civil work, and 23 officers, including a bench of magistrates, to administer criminal justice. The common offences are murder in Borsad and Anand, and house-breaking, burglary, cattle-stealing, and thefts elsewhere.

In 1803, when Kaira was ceded to the British, the District afforded examples of various forms of land revenue administration. In the centre were three kinds of villages; rūsti or peaceable, mehtuās or refractory, and an intermediate class of rasti-mehwas villages. The refractory villages were occupied by the turbulent descendants of the Rainut and Koli warriors. Here Koli thakurs or chiefs administered despotically their little clusters of huts. Revenue was demanded but seldom paid. The peaceable villages were mostly grants from Government to those who had done some public service. The most important Muhammadan grants were called māliki, and were held rent-free. Internal administration was the concern of the village community. There were four forms of village government, the commonest being that by which the village headman engaged annually for the payment of a certain sum to Government. The profits of a good year, under this the most simple and general system, went to the headman; on the other hand, the headman had to bear any loss from failure of crop or short tillage. Above the headman or patel were the revenue-farmers (kamānisdār), who fixed the village contributions; and below the headmen were the cultivators and conarceners of the village. A class quite apart, called manotidars, or money-lenders, arose as sureties for the payment of the revenue. This short statement furnishes an outline of the Marāthā revenue system. It had the merit of simplicity and was calculated to ensure the recovery of revenue. At the same time it is clear that it was productive of abuses and suffering to the cultivating classes. When the District was taken over by the British in 1803, the system was continued with but small modification until 1862. In that year the revenue survey system, which deals directly with individual cultivators, was introduced. The result of the survey assessment was to increase the land revenue demand from 11% to 13% lakhs, or by 11 per cent. In 1804 a resettlement was undertaken and completed in 1896, which further enhanced the total revenue by 17 per cent. The average rates of assessment are: 'dry' land, Rs. 3-7 (maximum Rs. 6-12, minimum Rs. 1-8): rice land, Rs. 5-11 (maximum Rs. 6-12, minimum Rs. 1-8); garden land, Rs. 9-9 (maximum Rs. 7, minimum Rs. 5).

Collections of land revenue and total revenue have been as follows in recent years, in thousands of rupees:—

| | 1880-1, | ı890~t. | rg01-s. | 1903-4. |
|--------------|----------------|----------------|---------|----------------|
| Land revenue | 19,69 21,65 | 19,51 20,06 | 10,34 | 18,31 20,73 |

Of the Government villages, 88 are held on the narvādāri tenure. The peculiarity of this tenure is that it involves joint responsibility for the payment of the Government revenue. In narvādāri villages the pātidārs or sharers belong to the Kunbī caste, and on account of being narvādārs hold a high position among their fellows, being the descendants of the old proprietary cultivators. This tenure has been preserved by Act V of 1862 of the Bombay Government, but the land tax is levied at survey rates on the whole arable land. The villages on the banks of the river Mahī held on the mehwāsi tenure pay their revenue in a lump sum. A clan of Musalmān yeomen, known as the Māliks, have for nearly 100 years held 27 villages on a special tenure.

The District contains to municipalities: namely, KAIRA, KAPADVANJ, MEHMADĀBĀD, NADIĀD, DĀKOR, BORSAD, ANAND, UMRETH, OD, and MAHUDHA. The District board was established in 1863, and there are 7 tāhuka boards. The total expenditure of all these boards in 1903-4 was 2½ lakhs, of which half a lakh was spent on roads and buildings. The chief source of income is the land cess.

The District Superintendent of police has the assistance of 2 inspectors and 10 chief constables. There are 12 police stations. The force in 1904 numbered 555 men, working under 133 head constables. Six mounted police under one daffadar were also maintained. There are 8 subsidiary jails in the District, with accommodation for 187 prisoners. The daily average prison population in 1904 was 36, of whom 2 were females.

The District stands fourth among the Districts of the Presidency in the literacy of its population, of whom 9-9 per cent. (17-9 males and 0-9 females) were able to read and write in 1901. In 1855-6 there were only 7 schools attended by 1,036 pupils; by 1876-7 the number of schools had risen to 189 and the number of pupils to 14,720. In 1881 there were 205 schools with 16,107 pupils, who increased to 27,261 by 1891, and numbered 27,911 in 1901. In 1903-4 the District contained 365 schools, of which 84 were private, attended by 17,474 pupils, including 2,581 girls. Besides one high school, there were 14 middle and 266 primary schools. Of the 281 public institutions, one is managed by the Educational department, and 246 by

local or municipal boards, while 30 are aided and 4 unaided. The total expenditure on education in 1903-4 was Rs. 1,85,000, of which Rs. 23,000 was derived from fees. Of the total, 79 per cent. was devoted to primary schools.

In 1904 the District had one hospital and 8 dispensaries, with accommodation for 94 in-patients. The number of patients treated in 1904 was 110,069, including 1,122 in-patients; and 3,675 operations were performed. The expenditure was Rs. 21,000, of which Rs. 15,000 was met from Local and municipal funds. The Irish Presbyterian and Salvation Army Missions have each opened a dispensary at Anand, to which hospitals are shortly to be added.

The number of persons successfully vaccinated in 1903-4 was 17,000, representing a proportion of 24 per 1,000, which is slightly below the average for the Presidency.

[Sir J. M. Campbell, Bombay Gazetteer, vol. iii, Kaira and Pānch Mahāls (1879).]

Kaira Town (Kheda).—Head-quarters of Kaira District, Bombay. situated in 22° 45' N. and 72° 41' E., 7 miles south-west of Mehmadabad station on the Bombay, Baroda, and Central India Railway, and 20 miles south-west of Ahmadābād. Population (1901), 10,302. Kaira is a very ancient place, having a legendary connexion with the Mahābhārata, and is proved by the evidence of copperplate grants to have existed as early as the fifth century A.D. Early in the eighteenth century it passed to the Babi family, with whom it remained till 1753. when it was taken by the Marathas under Damaji Gaikwar. It was finally handed over to the British by Anand Rao Gaikwar in 1803. Its frontier position rendered Kaira important: and a force of infantry. cavalry, and artillery was stationed there until the transfer, in 1810. of the frontier station to Deesa. The climate is said to have improved of late years. Earthquake shocks were felt in 1860 and 1864. The courthouse is a handsome building with Greek pillars. Near it is a part of the old jail, in 1814 the scene of a riot in which the prisoners rose, and which was only suppressed with a loss of 19 killed and 12 wounded. The municipality was established in 1857, and its income during the decade ending 1901 averaged Rs. 15,000. In 1903-4 the income was Rs. 18,000, chiefly from a house and land tax. Besides the Government revenue offices, the town contains a Sub-Judge's court. a civil hospital, and 6 schools (5 for boys and one for girls), attended by 543 male and 82 female pupils. The boys' schools include an English school with 92 pupils.

Kairāna Tahail.—North-western tahsil of Muzassamagar District, United Provinces, lying between 29° 19' and 29° 42' N. and 77° 2' and 77° 30' E., with an area of 464 square miles. It comprises five pargunar.—Kairāna, Jhinjhāna, Shāmli, Thāna Bhawan, and Bidauli—and

was formerly known as Shāmli. Population increased from 200,157 in 1891 to 234,679 in 1901. The tahsil contains five towns: namely, KAIRĀNA (population, 19,304), the head-quarters, Thāna Bhawan (8,861), Shāmli (7,478), Jalālābād (6,822), and Jhinjhāna (5,094); and 256 villages. In 1903-4 the demand for land revenue was Rs. 3,86,000, and for cesses Rs. 50,000. The river Jumna forms the western boundary, and the adjoining tract lies low and is intersected by jhils and watercourses. The eastern half of the tahsil is, however, part of the upland tract and is irrigated by the Eastern Jumna Canal. In 1903-4 the area under cultivation was 291 square miles, of which 131 were irrigated.

Kairana Town.—Head-quarters of the tahsil of the same name in Muzaffarnagar District, United Provinces, situated in 20° 24' N, and 77° 12' E. It is the terminus of a metalled road from Muzaffarnagar town. The population is increasing slowly and was 10.104 in 1001. Mukarrab Khān, physician to Jahāngīr and Shāh Jahān, received the town and surrounding country as a grant. He built a dargah and laid out a beautiful garden with a large tank, and the town also contains several mosques dating from the sixteenth and seventeenth centuries. Kairāna is built partly on the low-lying Jumna khādar and partly on the rising slope to the upland plain, and has a clean, wellpaved bazar. The town was constituted a municipality in 1874. During the ten years ending 1901 the income and expenditure averaged Rs. 12,000. In 1903-4 the income was Rs. 16,000, chiefly derived from octroi (Rs. 12,000); and the expenditure was Rs. 18,000. Ornamental curtains are made here by pasting small pieces of lookingglass on coloured cloth. There is a considerable amount of traffic in grain with both the Puniab and the railway, and a small calico-printing industry. Besides the tahsili, there are a munsifi, a dispensary, and two schools.

Kalsarganj. South-western tahsil of Bahraich District, United Provinces, comprising the parganas of Fakhrpur and Hisāmpur, and lying between 27° 4′ and 27° 46′ N. and 81° 16′ and 81° 46′ E., with an area of 679 square miles. Population increased from 332,193 in 1891 to 348,172 in 1901. There are 647 villages, but no town. The demand for land revenue in 1903-4 was Rs. 3,29,000, and for cesses Rs. 75,000. The density of population, 513 persons per square mile, is considerably above the District average. The tahsil lies in the wide valley of the Gogra, and is scored by many old channels, the chief of which are the Sarjū or Suhell and the Tirhl. The whole area is fertile, except where the Gogra has deposited sand, and irrigation is rarely needed. In 1903-4 the area under cultivation was 443 square miles, of which only 13 were irrigated.

Kaithal Tahali. - Western tahsil and subdivision of Karnal District.

Punjab, lying between 20° 22' and 30° 12' N. and 76° 11' and 76° 47' E. with an area of 1.280 square miles. The population in inoi was 265,180, compared with 257,402 in 1801. It contains the towns of KAITHAL (nonulation, 14.408), the head-quarters, and PUNDRI (5.834); and 413 villages, including Penowa, a place of religious importance. The land revenue and cesses amounted in 1002-4 to 2.7 lakhs. The tahstl consists chiefly of the petty principality of Kaithal, which escheated in 1841. North of the Ghaggar, the country is undulating and the soil contains a considerable proportion of sand. The tract between the Ghaggar and the southern limits of the Saraswatt depression consists of vast prairies, flooded during the rains and interspersed with numerous trees and patches of cultivation. This tract. known as the Naili (Nali), is notoriously unhealthy, but the pasture it affords is invaluable in dry years. The southern half of the tahsil is a level plain, now irrigated by the Western Jumna Canal. On the east is the Nardak. The people have not yet entirely abandoned their pastoral traditions, and large tracts are still used for grazing alone. Farther west, cultivation becomes more general, and in the extreme south-west the soil contains a large proportion of sand.

Kalthal Town. - Head-quarters of the subdivision and tahsil of the same name in Karnal District. Puniab, situated in 20° 48' N. and 76° 24' E., 38 miles west of Karnal town, and the terminus of the Kaithal branch of the Southern Puniab Railway. Population (1901). 14,408. Kaithal is picturesquely situated on an extensive tank, which partly surrounds it, with numerous bathing places and flights of steps. It lies in KURUKSHLIRA, and is said to have been founded by the hero Yudhishthira. It bore in Sanskrit the name of Kapisthala, or the 'alvode of monkeys,' and possesses an asthau or temple of Anini, mother of Hanuman, the monkey god. During the time of the earlier Muhammadan emperors it was a place of some importance, and Timur, who says its inhabitants were fire worshippers, halted here before he attacked Delhi in 1308. The tombs of several saints, the oldest of which is that of the Shaikh Salāh ud-dīn of Balkh (A.D. 1246), show that it was a centre of Muhammadan religious life. The town was renovated, and a fort built, under Akbar. In 1767 it fell into the hands of the Sikh thief, Bhai Desu Singh, whose descendants, the Bhais of Kaithal. ranked among the most powerful of the Cis-Sutlej chiefs. Their territories lapsed to the British Government in 1843, when Kaithal became the head-quarters of a District; but in 1849 this was absorbed into Thanesar District, which was in turn included in that of Karnal in 1862. The now somewhat dilapidated fort or palace of the Bhais stands out prominently on the bank of the tank. The municipality was created in 1867. The income and expenditure during the ten years ending 1902-3 averaged Rs. 10,000 and Rs. 20,400 respectively. In 1903-4 the income was Rs. 15,800, chiefly derived from octroi; and the expenditure was Rs. 17,400. It maintains a dispensary and an Anglo-vernacular middle school. Saltpetre is refined at Kaithal, and it has a considerable manufacture of lacquered wood, besides two cotton factories, one for ginning and the other for ginning and pressing. The number of employés in the factories in 1904 was 103.

Kākar.— Tāluka of Lārkāna District, Sind, Bombay, lying between 26° 53' and 27° 14' N. and 67° 12' and 67° 57' E., with an area of 445 square miles. The population in 1901 was 49,252, compared with 47,888 in 1891. The tāluka contains 73 villages, of which Khairpur Nathan Shāh is the head-quarters. The density, 111 persons per square mile, is slightly below the District average. The land revenue and cesses in 1903-4 amounted to 2-1 lakhs. The tāluka depends for irrigation on the Western Nāra Canal, but suffers from its position at the lower end of the canal, the waters of which are largely exhausted by the northern tālukas. The western portion depends upon rain and a few hill-torrents for cultivation. fowār is the principal crop.

Kākorā.—Village in the District and tahstl of Budaun, United Provinces, situated in 27° 53' N. and 79° 3' E., near the bank of the Ganges, 12 miles south-west of Budaun town. Population (1901), 2,941. The place is noted for a religious and trading fair held at the full moon of Kārtik (October-November), which is attended by as many as 100,000 to 200,000 persons, who come from all parts of Rohilkhand, as well as from Delhi, Muttra, and Cawnpore. The principal object is bathing, but a good deal of trade is carried on in cloth, metal goods, leather, and cattle. The actual site of the fair varies within a few miles according to the movements of the river.

Kākori. Town in the District and tahsil of Lucknow, United Provinces, situated in 26° 52′ N. and 80° 48′ E., near a station on the Oudh and Rohilkhand Railway. Population (1901), 8,933. Kākorī is said to have been originally inhabited by Bhars and was subsequently included in Baiswāra. It was granted to Muhammadans by Husain Shāh of Jaunpur. Several tombs of noted saints are situated in the town and its environs. Some of the Shaikh families residing here are of antiquity and position, and their members include many of the Lucknow pleaders, who have adorned the town with well-built houses, while others are engaged in Government service. Kākorī is administered under Act XX of 1856, with an income of about Rs. 1,300. There are two schools with about 110 pupils.

Kakrālā.—Town in the Dātāganj tahsī! of Budaun District, United Provinces, situated in 27° 53' N. and 79° 12' E., 12 miles south of Budaun town. Population (1901), 5,954. The name is said to have been derived from hankar or nodular limestone, which is largely found in the neighbourhood. In April, 1858, General Penny defeated near

Kakrālā a party of Ghāzīs or fanatical Musalmāns, who were lying in ambush for him. This victory put an end to the rebel government which had ruled at Budaun for eleven months. The town contains a sarai, and a branch of the American Methodist Mission. It is administered under Act XX of 1856, with an income of about Rs. 1,000. The primary school has 75 pupils.

Kalabagh.—Small cantonment in Hazāra District, North-West Frontier Province, situated in 34° 6′ N. and 73° 25′ E., on the road between Abbottābād and Murree. During the summer months it is occupied by one of the British mountain batteries which are stationed at Rāwalpindi in the winter.

Kalabagh Estate.—Estate in the District and tahsil of Mianwali. Puniab, with an area of 107 square miles. It is held by Muhammad Khān Malik Yār, the Awān Malik of Kālābāgh. Over 300 years ago the Awan Maliks settled at Dhankot, a natural fastness on the Indus above Kālābāgh. They forced the Bhangi Khel Khattaks of the hills on the north to pay tribute, and at the close of the eighteenth century were recognized as chiefs of the Kälähägh territory by Timur Shah Durrant. The Sikhs annexed the estate in 1822, but Malik Allah Yar Khan retained it as their feudatory. He assisted Licutenant (afterwards Sir Herbert) Edwardes to construct the Dalipnagar fort at Bannu, and his son Muzaffar Khān was taken prisoner there by the Sikhs in the second Sikh War. During the Mutiny he raised 100 men and was entrusted with the charge of one of the gates of Peshäwar city, receiving the title of Khān Babādur as a reward. The present Malik, Yār Muhammad Khān, succeeded in 1885. He holds a jāgir worth Rs. 6,000, and his income is about Rs. 22,000 a year, of which Rs. 1.000 is derived from the manufacture of alum.

Kalabagh Town, -Town in the Isa Khel tahsil of Mianwali District, Punjab, situated in 32° 58' N. and 71° 33' E. Population (1901), 5.824. The town is picturesquely situated at the foot of the Salt Range, on the right bank of the Indus, at the point where the river debouches from the hills, 105 miles below Attock. The houses nestle against the side of a precipitous hill of solid rock-salt, piled one upon another in successive tiers, the roof of each tier forming the street which passes in front of the row immediately above. 1.ong before the British annexation of the Punjab, Kālābāgh was famous for its salt: and some of the wonders told of it by travellers as long ago as 1808 may still be seen in its houses built of and on rock-salt, its roads cut out of the solid salt rock, and its immense exposures of salt, sometimes closely resembling alabaster. The Kālābāgh hills are a continuation of the cis-Indus portion of the Salt Range, but are remarkable for the quantity of salt exposed, and the purity, closeness of grain, and hardness of a great proportion of it. Unlike the operations elsewhere in

the Salt Range, which are purely mining, the salt is here quarried at the surface. There are twelve quarties, some situated on the right bank of the Indus, and some on the right bank of the Lun Nullah. which runs into the Indus on its right bank, at the base of a hill known as the Saudagar hill. Enormous quantities of salt lie exposed here, underlying Tertiary strata, in workable seams of from 4 to 20 feet thick, alternating with seams of impure salt and marl. The deposits rise to a height of about 200 feet above the bed of the Cor gorge. the seams striking south to north and dipping to the west at an angle of about 70°. The salt is slightly better in quality than that of the Mayo and Warcha Mines, and is in high favour with traders; but it is handicapped in competition with those salts, because the Indus lies between it and the Mari station of the Kundian-Campbellpore Railway. The quarries lie from half a mile to a mile from the sale dépôt at Kukrānwāla Vandah on the right bank of the Indus, where the miners deliver the salt at the rate of Rs. 4-2 per 100 maunds. The whole of the operations connected with the salt up to the time that it is deposited in store in the dépôt are in the hands of the miners. At the dépôt the salt is weighed out to purchasers and cleared under the supervision of the inspector in charge. The total quantity issued in 1903-4 amounted to 101.750 maunds, of which 150.062 maunds were removed by rail and 32,161 by river. Alum also occurs in the neighbouring hills, and forms a considerable but decreasing item of local trade, the out-turn in 1904 being about 3,500 maunds, which sold for Rs. 3 per maund (822 lb.). The town possesses a manufacture of striped cloth (sust), and of iron instruments and vessels from metal imported from the Kanigoram hill.

The municipality was created in 1875. The income and expenditure during the ten years ending 1902-3 averaged Rs. 7,100 and Rs. 6,600. In 1903-4 the income was Rs. 5,600, chiefly derived from octroi; and the expenditure was Rs. 6,700. The town contains a dispensary and a municipal primary school. An Awan family, which resides in Kalabagh, has a certain supremacy over the whole of the tribesmen, the representative of the family bearing the title of Malik.

Kalabgür.— Tāluk in Medak District, Hyderābād State, with an area of 432 square miles. The population in 1901, including jāgīrs, was 78,052, compared with 96,100 in 1891, the decrease being due to emigration and transfer of villages. The tātuk contains one town, Sadaseopet (population, 6,672); and Sangareddipet (4,809) is the head-quarters of the District and tāluk. There are also 144 other villages, of which 60 are jāgīr. The land revenue in 1901 was 2.4 lakhs. Kalabgūr is well supplied with tanks, and rice and sugar-canc are largely cultivated. The Nizām's State Railway passes through its southern portion, and the river Mānjra flows through the north.

Kālā-Chitta.—Mountain range in the Pindi Gheb taksil of Attock District. Puniab, having the general form of a wedge or triangle, whose base rests upon the left bank of the Indus, near the township of Nara, while its apex stretches to the Margala pass, about so miles to the eastward. The broadest portion has a depth of about 12 miles. The range is formed of two portions differing much in appearance. The south-western part, stretching for 35 miles from the Indus through the Pindi Gheb takstl, known as the Kālā Pahār or 'black mountain,' is generally formed of very dark sandstone, often quite purple in hue, and sometimes blackened by exposure to the weather. Mixed with this are grey sandstone and red clay. The Chitta or 'white' hill runs the whole length of the northern side of the range. It is formed of white Nummulitic limestone, but dark limestone also crops up in its midst; it is by far the more valuable part of the range, the limestone being used for burning, and the forest produce being far better than in the Kālā. Bushes of acacia and wild olive are scattered over its rugged sides, but on the main portion a coarse grass forms the only vegetation.

Kaladan. --River of Burma, which rises in the Chin Hills in the Yahow country, and is there known as the Boinu. Its course at first is southwards, then northwards. Bending westwards, it passes through a portion of the Lushai Hills, and then turning south again, enters Northern Arakan at its northern end, and flows down the western side of the District, past Paletwa, the head-quarters, which lies on its western bank. Farther south it enters Akyab District and, continuing in a southerly direction, empties itself after a course of nearly 300 miles into the Bay of Bengal at Akyab, where its estuary is 6 miles in breadth. It is a picturesque river, navigable for steam traffic as high as Paletwa, nearly 100 miles from the sea. Its principal tributaries are the Dalet, Palet, Mi, and Pi

Kalādgi.- Village in the Bāgalkot tāluka of Bijāpur District, Bombay, situated in 16° 12′ N. and 75° 30′ E., on the right bank of the Ghatprabha river, 15 miles west of Bāgalkot on the Southern Mahratta Railway. Population (1901), 4,946. Kalādgi was formerly the chief station of the District and a cantonment. The municipality, established in 1866, was abolished after the removal of the head-quarters in 1885.

Kālāhandī.—Feudatory State in Bengal, lying between 19° 3' and 20° 28' N. and 82° 32' and 83° 47' E., and formerly known as Karond. It is bounded on the north by the Patnā State, on the northwest by Raipur District, and on the east, south-east, and south-west by the Jeypore zamīndāri of Vizagapatam District. The area of the State is 3,745 square miles; and its head-quarters are at Bhawāni Patnā. a village of 4,400 inhabitants, 140 miles from Sambalpur and 130 from

Chicacole station on the East Coast Railway. From the north-east to the south-west of the State runs an almost continuous range of hills, a part of the Eastern Ghāts, with several peaks approaching 4,000 feet in elevation. To the north of this range lies a stretch of comparatively open country interspersed with low hills. The uplands are generally well wooded, except in tracts where the forest has been burnt off for cultivation. The Indravati river rises in the south of the State and passes into Bastar after a short course through the hills. The open country is drained by the Tel river and its affluent the Hatti.

The ruling family are Nagvansi Raiputs, and are said to be connected with the Satrangarh Rājās of Chotā Nāgpur. The State appears to have existed from a remote period without being subject to any definite suzerainty. The payment of tribute and acknowledgement of their supremacy were, however, imposed by the Marathas. In 1878 the chief, Udit Pratap Deo, obtained an hereditary salute of o guns. In 1881. on the death of Udit Pratap Deo, discontent broke out among the primitive Khond tribe, who form a large proportion of the population. The late Rājā had encouraged the immigration of members of the Koltā caste, who are excellent agriculturists and keenly acquisitive of land; and many of the Khond headmen and tenants had been ousted by them. The smouldering grievances of the Khonds had been suppressed by Udit Pratap, but they now found expression in acts of plunder. A British officer was dispatched to Kalahandi to inquire into their complaints, and a settlement was arrived at, which it was thought would prove satisfactory. These hopes, however, were illusory: and in May, 1882, the Khonds rose and slaughtered more than 80 Koltās, while 300 more were besieged in the village of Norlā, the Khonds appearing with portions of the scalps and hair of the murdered victims hanging to their bows. On the arrival of a body of police, which had been summoned from Vizagapatam, they dispersed, and the outbreak was soon afterwards suppressed, seven of the ringleaders being arrested, tried, and hanged. A settlement was made of the grievances of the Khonds, and the tranquillity of the State has not again been disturbed. The next chief, Raghu Kishor Deo, was installed in 1894 on attaining his majority, but was murdered in 1897 by a servant. He left an infant son of two years of age. Brij Mohan Deo. who is now being educated at Bhawani Patna. During his minority the management of the State is in charge of a Political Agent subordinate to the Commissioner of Orissa.

The population in 1901 was 350,529, having increased by 7 per cent. during the previous decade. The number of inhabited villages is 2,198, and the density of population 94 persons per square mile. About 81 per cent. of the population speak Oriya and 15 per cent. Khondi, the language of the Khond tribe. Khonds number 103,000,

or 29 per cent. of the total; and next to them the most numerous castes are Gahras or Ahirs, Doms, a menial caste of sweepers, and Gonds. There is a very slight sprinkling of Telugu castes.

Along the base of the hills is found a light alluvial soil, fertile and easily tilled, and yielding good crops of almost any grain. The open country is covered by black cotton soil mixed with limestone nodules and with the vellow clay or gravel formed from metamorphic rock. The hilly country on the south and east, amounting to 62 per cent. of the whole State, has not been surveyed. Of the remaining land, 612 square miles, or 45 per cent, of the available area, are occupied for cultivation, and 137 were cultivated in 1004. The staple crops are rice, covering 285 square miles; til. 68; and kodon and kuthi. The State contains 1.464 tanks, from which 280 square miles can be irrigated. The numerous streams flowing from the hills also afford natural irrigation to land lying on their banks, and soil in this position gives two crops in the year. Oranges and plantains are grown on irrigated land. The prevailing forest tree in the north of the State is sal (Shorea robusta), teak being rare and local. With the sal are associated the other common trees of Peninsular India. Farther to the south between the Tel and Indravati, where a range of hills intervenes, the sal disappears and sai (Terminalia tomentosa) is the commonest tree. Owing to the distance of the forests from the railway, exports of timber are inconsiderable. No minerals are worked, but graphite occurs in veins and pockets in the metamorphic rocks. State contains 48 miles of gravelled and 116 of embanked roads. The principal routes are those from Bhawani Patna to Raipur, and to Sambalpur through Bolangir in Patria, and from Junagarh to Rajim through Deobhog. Exports are sent principally to Raipur and the Madras Presidency, while imports are received from Raipur, Sambalpur, and Madras.

The total revenue in 1904 was Rs. 1,11,000, the principal items being land revenue and cesses, Rs. 59,000; forests, Rs. 14,000; and excise, Rs. 24,000. The unsurveyed territory on the south and east is comprised in six minor samindāri estates, and a hilly tract called Dongurlā, mainly occupied by Khonds who practise shifting cultivation. The revenue paid by the samindārs is Rs. 3,500. Two of the samindāri families are related to the chief. The remaining area has been cadastrally surveyed and a settlement effected. The taxation of land is about 8 annas per cultivated acre. About Rs. 30,000 of the gross land revenue has been assigned in revenue-free grants. The total expenditure in 1904 was Rs. 1,36,000, the principal items being tribute, Rs. 12,000; allowances to the ruling family, Rs. 20,000; general administration, Rs. 14,000: and police, Rs. 18,000. The tribute is liable to revision. In twelve years since 1893 the State has expended 3-23 lakhs on public

works under the supervision of the Engineer of the Chhattisgarh States division. The works carried out include, besides the roads mentioned, the construction of a palace, public offices, a hospital, police station, school, and sarai at Bhawāni Patnā. The educational institutions comprise 48 schools with 3,876 pupils, including one English and two vernacular middle schools and a girls' school. The total expenditure on education in 1904 was Rs. 7,000. At the Census of 1901, 6,129 persons were returned as able to read and write, the proportion being 1.7 per cent. (3.3 males and 0.1 females). Dispensaries have been established at Bhawāni Patnā, Jūnāgarh, Kāshīpur, and Thuāmāl, and a separate dispensary for females at Bhawāni Patnā. About 63,000 persons were treated in these institutions in 1904.

Kālahasti Zamindāri.- One of the largest zamindāri estates in Madras, situated partly in North Arcot District, partly in Nellore, and partly in Chingleput. Number of villages, 406 in North Arcot, 201 in Nellore, and 206 in Chingleput; area, 638 square miles in North Arcot, 576 in Nellore, and 250 in Chingleput: total population (1001). 223,327. The capital is KALAHASTI TOWN, where the zamindur resides. The history of the family, which belongs to the Velama easte. is obscure. The original owner of the estate probably received it from a king of the Vijavanagar dynasty in the fifteenth century, on condition of maintaining order. The estate at one time spread as far as the site of Fort St. George, and the Company obtained the land on which Madras now stands from the proprietor in 1610. The settlement is traditionally said to have been named Chennappapatnam in honour of the zamindar's father. The estate came under British control in 1702. and a formal grant to the family was made in 1801. The zamindur afterwards received the hereditary title of Raja. The gross income amounts to over 5 lakhs. The beshkash (or permanent revenue paid to Government) for the whole of it is 1-7 lakhs, and the demand for land cess amounts to Rs. 15,000. Owing to the estate being heavily encumbered, it was recently taken under the management of the Court of Wards, but it has now been handed back to the proprietor. estate is in a great measure covered by scrub jungle, especially the portion in North Arcot District. Much firewood is sent to Madras city from these forests; and leopards, bears, and small game are fairly numerous in them. A large number of the jungle tribes of Irulas and Yanadis subsist by gathering honey, roots, and bark for sale in the neighbouring villages. The soil is not very rich, but about 140,000 acres are under cultivation.

Kalahasti Talini.—Zamindāri tahsil in the Kalahasti samindāri in the north-east of North Arcot District, Madras, lying between 13° 14' and 13° 55' N. and 79° 27' and 79° 59' E. Area, 638 square miles: population in 1901, 94,132, compared with 81,860 in 1891.

The tahsil contains 324 villages and one town, Kalahasti (population, 11,992), the head-quarters. Demand for peshkash and land cess in 1003-4. Rs. 78.000.

Kalahasti Town.-Head-quarters of the lahstl of the same name in North Arcot District. Madras, situated in 13° 45' N. and 70° 42' E. with a station on the South Indian Railway, on the right bank of the Swarnamukhi at the extremity of the Nagari hills. Population (1001), 11,002. It is the residence of the Raia of Kalahasti. and the head-quarters of the deputy-tahsildar and sub-magistrate. A large number of the inhabitants are in the employ of the samindar, whose residence, an imposing-looking building, faces the eastern street of the old town. The approach to the town from the river is through the last gap in the Nagari hills, which are here considered so holy that the quarrying of stone or gravel is forbidden. Kālahasti is a thriving town, carrying on a brisk trade in grain, bangles, and many other articles. A good deal of cotton stuff is woven in the suburbs, and the hand-printed and hand-painted cotton fabrics enjoy a high reputation. Some of the latter gained a bronze medal at the Delhi Darbar Exhibition of 1003. The town is famous for its Siva temple, wherein a festival takes place annually during February and March.

Kalait. Village in the Narwāna tahstl, Karmgarh nisamat, Patiāla State, Punjab, situated in 21° 49′ N. and 76° 19′ E., 13 miles southwest of Kaithal on the Narwāna-Kaithal branch of the Southern Punjab Railway. Population (1901), 3,490. The place is famous for four ancient temples ascribed to Rājā Sālbāhan, and for a tank, called Kapāl Maní's tīrath, which is held sacred by Hindus. The temples, which are adorned with sculptures, are supposed to date from the eleventh century.

Kalale. -Village in the Nanjangūd tāluk of Mysore District, Mysore, situated in 12° 4' N. and 76° 40' E., 3 miles south-west of Nanjangūd. Population (1901), 2,500. The place is historically interesting as the ancestral domain of the Dalavāyis of Mysore. It is said to have been founded in 1504 by a connexion of the Vijayanagar family. After the Mysore Rājās acquired Seringapatam in 1610, they formed an alliance with the Kalale family, by which the latter furnished the Dalavāyi, or hereditary minister and general of the State, while Mysore furnished the Kartar ('Curtur' in old English documents) or ruler. Latterly the Dalavāyis rendered the Rājās subservient to their interests, but were in their turn displaced by Haidar Ali. The municipality formed in 1899 was converted into a Union in 1904. The receipts and expenditure during the two years ending 1901 averaged Rs. 1,990 and Rs. 650. In 1903-4 they were Rs. 870 and Rs. 2,800.

Kalam. Crown tāluk in the north of Osmānābād District, Hyderābād State. The population in 1901 was 38,030, and the area 303 square miles; but in 1905 the Wasi tāluk was incorporated in it. The total area is now 658 square miles, of which the population in 1901 was 87,701, compared with 120,081 in 1891, the decrease being due to the famine of 1900. The river Mānjra separates the tāluk from Bhīr District on the north, and the soil is chiefly regar, with some alluvium. It contains 151 villages and yields a land revenue of 3.7 lakhs. The jāgīr tāluks of Bhūm and Wālwad lie to the west with 31 and 13 villages, and populations (1901) of 11,416 and 6,997 respectively. Their areas are about 143 and 61 square miles.

Kalam.—Village in the District and tāluk of Yeotmāl, Berār, situated in 20° 27′ N. and 78° 22′ E. Population (1901), 3,595. Kalam was formerly an important fortress; and in 1425 the Bahmani king, Ahmad Shāh Walī, captured it from the 'infidels,' probably Gonds of Chānda or Kherla, into whose hands it had fallen. Kalam and Māhūr were the most important fortresses in the south-eastern corner of Berār at that time. In the Ain-i-Akbarī Kalam is mentioned as the head-quarters of a sarkār or revenue district. It has a remarkable underground temple dedicated to Chintāman.

Kalamnüri.— North-eastern tāluk of Parbhani District, Hyderābād State, with an area of 538 square miles. Including jāgīrs, the population in 1901 was 58,835, compared with 84,685 in 1891, the decrease being due to the famine of 1900. The tāluk had till recently 186 villages, of which 11 were jāgīr; and Kalamnūri (population, 4,267) is the head-quarters. The land revenue in 1901 was 1-9 lakhs. In 1905 a few villages were added from Nānder District. The Pengangā flows on the north-eastern border, separating the tāluk from the Bāsim District of Berār.

Kalaneur (1) .- Town in the District and tahsil of Gurdaspur, Punjab, situated in 32° o' N. and 75° 10' E., 15 miles west of Gurdaspur town. Population (1901), 5,251. It was the chief place in the neighbourhood from the fourteenth to the sixteenth century, and was twice attacked by Jasrath Khokhar, once after his unsuccessful assault on Lahore in 1422, and again in 1428, when Malik Sikandar marched to relieve the place and defeated Jasrath on the Beas. It was here that Akhar received the news of his father's death. He promptly had himself installed on a takht or throne, still to be seen outside the town. Akbar had to retake Kalānaur from Sikandar Shāh Sūr in the following year. and resided here for several months. It was plundered by Banda, the Sikh leader, early in the eighteenth century. The municipality was created in 1867. The income during the ten years ending 1902-3 averaged Rs. 5,100, and the expenditure Rs. 5,000. The income and expenditure in 1903-4 were Rs. 5,400, the receipts being chiefly from octroi. The municipality maintains a vernacular middle school and a dispensary.

Kalānaur (2).—Town in the District and tahsil of Rohtak, Punjab, situated in 28° 50′ N. and 76° 24′ E., 12 miles west of Rohtak town on the road to Bhīwāni. Population (1901), 7,640. It was founded by Kalīān Singh and Bhawān Singh, two Ponwār Rājputs, sons-in-law of Anang Pāl, the king of Delhi, and named after the former. Kalānaur remained in the possession of their descendants, who, though dispossessed for a time by the Balochs of Farrukhnagar, were reinstated by the Delhi court. The town is famous for its leather-work, especially saddlery. It has a vernacular middle school.

Kalang .-- An offshoot of the Brahmaputra in Assam, which leaves the main stream about 10 miles east of Silghat, and after a tortuous course of about 73 miles through Nowgong District, rejoins it on the confines of Kamrun. In the upper part of its course the Kalang receives the rivers which flow from the western watershed of the Mikir Hills, while the KAPILL with its affluents the Jamuna and Dojang. the Barpani, and the UMIAN bring to it the drainage of North Cachar and of the Khasi and Jaintia Hills. The Digry, another considerable river, joins it near its western mouth. Through the greater portion of its length the banks of the Kalang are lined with villages. the most important of which are Kaliabar, Samaguri, Puranigudam, Nowgong, the District head-quarters, and Rahā; but at its western end the country through which it passes lies too low for cultivation, and the banks of the river are covered with dense jungle grass. A sandbank at its eastern end is a serious obstacle to traffic during the dry season, but n the rains a steamer of low draught plies between Nowgong and Silghat, and carries away the tea collected at various centres. Country boats come up from Gauhāti at all seasons of the year for the transport of mustard, which is grown in large quantities in this portion of the Province. In the dry season the Kalang is fordable at Nowgong and Rahā, but after its junction with the Kapili there is always a considerable depth of water in the channel. Ferries have been established across the river at Kuwarital, Nowgong, Rahā, and Jāgi.

Kalanga.—Hill in Dehra Dun District, United Provinces, situated in 30° 20′ N. and 78° 5′ E. A fort was hastily thrown up here by the Gurkhas on the outbreak of the war of 1814. It is perched on a low spur of the Himālayas, 3½ miles north-east of Dehra, and was attacked in 1815 by General Gillespie, who fell while leading the storming party; for a time it was desperately defended, but the enemy evacuated it after a second assault, and the British demolished it shortly after. A plain white stone monument commemorates those who fell at the taking of the fort. On the slope of the hill is a village called Nālāpāni, near which is a celebrated spring that forms part of the water-supply of Dehra.

Kalasa.-Village in the Mudgere taluk of Kadur District, Mysore,

situated in 13° 14' N. and 75° 22' E., on the Bhadra river, 24 miles north-west of Mudgere town. The village lies in a valley surrounded by lofty hills, to the south of Mertinaryat, also known as the Kalasa hill. There is a large temple of Kalasesvara, containing thirteenthcentury copper grants by Jain queens, and surrounded by fifteenth and sixteenth-century stone inscriptions of the Bhairarasa Wodevar rulers of Kārkala under Vijayanagar. It was probably a Jain temple originally. Mounds covering ruins of a large town lie on all sides. Santara kingdom of Pomburchcha extended into the kingdom of Kalasa above the Ghāts and Karkala below the Ghāts. Kalasa is called a 'three thousand' kingdom. In the seventeenth century it was absorbed into the Keladi territory. In a sacred bathing-place on the river, called Ambātīrtha, is a large square boulder, placed horizontally on another, and bearing an inscription that it was brought and placed there with one hand by Madhvāchārva. This was the founder of the Mādhva sect of Brāhmans, who lived from 1238 to 1317. The arccanuts produced in the neighbourhood are reckoned the best in Mysore.

Kālastri.—//amindāri tahsil, estate, and town in North Arcot District, Madras. See Kālahasti.

Kalāt State.—Native State in Baluchistān, lying between 25° r' and 30° 8' N. and 61° 37' and 69° 22' E., with a total area of 71,593 square miles. It occupies the whole of the centre and south-west of the Province, with the exception of the indentation caused by the little State of Las Bela. It is bounded on the west by Persia; on the east by the Bolān Pass, the Marri and Bugti hills, and Sind; on the north by the Chāgai and Quetta-Pishin Districts; and on the south by Las Bela and the Arabian Sea. With the exception of the plains of Khārān, Kachhi, and Dasht in Makrān, the country is wholly

mountainous, the ranges being intersected here and there by long narrow valleys. The principal moun-

Physical aspects.

tains are the Central Brāhui, Kīrthar, Pab, Siāhān, Central Makrān, and Makrān Coast Ranges, which descend in elevation from about 10,000 to 1,200 feet. The drainage of the country is almost all carried off to the southward by the Nāri, Mūla, Hab, Porāli, Hingol, and Dasht rivers. The only large river draining northwards is the Rakhshān. The coast-line stretches for about 160 miles, from near Kalmat to Gwetter Bay, and the chief port is Pasni. Round Gwādar the country is in the possession of the Sultān of Maskat.

The geological groups in the State include Liassic; Jurassic (lower and upper Cretaceous strata); volcanic rocks of the Deccan trap; Kirthar (middle eocene); lower Nāri (upper eocene); and Siwālik beds (middle and upper miocene), besides extensive sub-recent and recent deposits. The State also includes a portion of the Indus alluvial plain.

The botany of the north differs entirely from that of the south. In the former the hill slopes occasionally bear juniper, olive, and pistachio; poplars, willows, and fruit trees grow in the valleys; herbaceous and bulbous plants are frequent on the hill-sides; and in the valleys southernwood (Artemisia) and many Astragali occur. In the latter the vegetation consists of a thorny unpleasant scrub, such plants as Capparis aphylla, Prosopis spicigera, Calotropis procera, Acanthodium spicatum, and Acacia being common. The dwarf-palm (Nannorhops Ritchieana) affords a means of livelihood to many of the inhabitants.

Sind ibex and mountain sheep occur, but are decreasing in numbers. 'Ravine deer' (gazelle) are common. Bears and leopards are seen occasionally. The wild ass is found in the western desert. Sist and chiker are abundant in the higher hills.

The climatic conditions vary greatly. Along the coast conditions are intermediate between those of India and the Persian Gulf. Farther inland great heat is experienced during summer, and the cold season is short. Kachhi is one of the hottest parts of India. Round Kalāt, on the other hand, the seasons are as well marked as in Europe; the temperature in summer is moderate, while in winter severe cold is experienced and snow falls. All the northern parts depend on the winter snow and rain for cultivation; in the south most of the rain falls in the summer; everywhere it is irregular, scanty, and local.

The history of the State has been given in the historical portion of the article on BALUCHISTAN. After being held successively by Sind,

History. by the Arabs, Ghaznivids, Ghorids, and Mongols, and again returning to Sind in the days of the Sumras and Sammas, it fell under the Mughal emperors of Delhi. The Ahmadzai power rose in the fifteenth century and reached its zenith in the eighteenth, but it was always subject to the suzerainty of Delhi or Kandahār. After the first Afghān War Kalāt came under the control of the British—a control which was defined and extended by the treatics of 1854 and 1876.

The most interesting archaeological remains in the country are the Kausi and Khusravi kāres in Makrān, and the ubiquitous stone dams known as gabrbands or 'embankments of the fire-worshippers.' Mounds containing pottery are frequent, and Buddhist remains have been found in Kachhi.

KALĀT Town is the capital of the State. Other towns of importance are Bhāg, Gandāva, Māstung, Pasni, and Gwādar. Permanent villages

Population. number 1,348, or one to 53 square miles; the majority of the population live in mat huts or in blanket tents. The State is divided into five main divisions: Kachhi, Sarawān, Jhalawān, Makrān, and Khārān, the latter being quasi-independent. The population, which numbers (1903) 470,336, consists chiefly of

Brahuis and Baloch, but also includes lats, who are cultivators in Kachhi: Darzadas and Nakībs, the cultivating class of Makrān: Loris, who are artisans; Meds and Koras, who are fishermen and seamen and servile dependants. The traders consist of Hindus and a few Khoias on the coast. The majority of the people are Sunni Muhammadans, but, in the west, many belong to the sect called Zikri. Except in Makran and Kharan, the people are organized into tribes. each of which acknowledges the leadership of a chief. Besides these tribesmen, who form the BRAHUI confederacy with the Khan of Kalat at its head, a distinct body is found in the Khān's own ulus or following, consisting of the cultivators in those portions of the country from which the Khān collects revenue direct. They are chiefly Dehwars and lats. Agriculture, flock-owning combined with harvesting, and fishing constitute the means of livelihood of most of the population. Brāhuī, Baluchī, Dehwārī, and Sindī are the languages chiefly spoken.

The soil is sandy in most places; here and there alluvial deposits occur and a bright red clay, which gives place in Makrān to the white clay known as milk. Permanent irrigation is possible only in a few favoured tracts; elsewhere, the country depends almost entirely on flood cultivation from embankments. In irrigated tracts the supply of water is obtained from kāres, springs, and rivers. The staple foodgrains consist of wheat and jowār. In Makrān the date is largely consumed. Rice, barley, melons, millets, tobacco, luceme, potatoes, and beans are also cultivated. The commonest tree in the orchards is the pomegranate; and apricots, almonds, mulberries, vines, and apples are also grown. Experiments in scriculture are being made at Mastung.

An excellent breed of cattle comes from Nāri in Kachhi. The Sarawān country and Kachhi produce the best horses in Baluchistān. The State possessed 783 branded mares in 1904. Large donkeys are bred near Kalāt town, and those in Makrān are noted for their speed. Sheep and goats are very numerous. The sheep's wool, of which large quantities are exported, is coarse and comes into the market in a deplorable condition of dirt. The goats are generally black. Camels are bred in large numbers in Kachhi, the Pab hills, and Khārān, and animals for transport are available almost everywhere. All households keep fowls. The better classes breed good greyhounds for coursing. The fishing industry on the Makrān coast is important and capable of development. Air-bladders, shark-fins, and salted fish are exported in large quantities.

Very little money circulates in the country, both rents and wages being usually paid in kind, and most of the tribesmen's dealings are carried on by barter. Owing to the inhospitable nature of the country, the people are very poor. The standard of living has risen slightly of recent years, and the people are now better clothed than formerly. A Brāhui will never beg in his own country. With the Makrānis mendicancy, which is known as pindag, is extremely common.

No arrangements for forest 'reservation' exist in the State; here and there, however, tribal groups preserve special grounds for grass and pasturage. Among minor forest products may be mentioned cumin seed, asafoetida, medicinal drugs, the fruit of the pistachio, bdellium, and gum arabic. Few minerals have been discovered, and coal alone, which occurs in the Sor range in the Sarawān country, is systematically worked. Traces of coal have been found elsewhere in the Sarawān country. Ferrous sulphate is obtainable in the Jhalawān country, and lead was at one time worked at Sekrān in the same area. Good earth-salt, known as hāmūn or kap, is obtainable from the swamps, and is also manufactured by lixiviation.

Coarse cotton cloth is woven in Kachhi and articles of floss silk are made in Makrān. All Brāhui women are expert with the needle, and

Trade and the local embroidery is both fine and artistic. Rugs, roommunications. The art of making pile-carpets is known here and there. Durable overcoats $(sh\bar{u}i)$ are made by the women from dark sheep's wool. Leather is embroidered in Kachhi, Kalāt, and Mastung. Matting, bags, ropes, and other articles are manufactured from the dwarf-palm.

Commerce is hampered by the levy of transit dues and octroi, both by the State and by tribal chiefs, and by the expense of cameltransport. The chief centres of trade are Kalāt, Mastung, Gandāva, Bhāg, Turbat, Gwādar, Pasni, and Nāl. The exports consist of wool, ghī, raw cotton, dates, salted fish, matting, medicinal drugs, and cattle, in return for which grain, piece-goods, metals, and silk are imported. From the north the traffic goes to Quetta; from the centre to Kachhi and Sind; and from the south and west by sea and land to Karāchi.

The North-Western Railway traverses the east and north-east of the State. The only cart-road is that from Quetta to Kalāt town. All other communications consist of tracks for pack-animals, the most important of which are those connecting Kalāt with Panjgūr, Kalāt with Bela via Wad, and Kachhi with Makrān via the Mūla Pass. A track is now in course of construction from Pasni on the coast to Panjgūr. A postal service to Kalāt is maintained by the British Government, and letters are carried thence once a week to Khuzdār. The British India Company's mail steamers touch at Pasni and Gwādar on alternate weeks, and mails are carried from Pasni to Turbat, the head-quarters of Makrān. The Indo-European Telegraph wire traverses the coast, with

offices at Pasni and Gwadar; a telegraph line runs from Quetta to Kalat, and a line has been sanctioned from Karachi to Panjgur.

The State experiences constant scarcity and occasional famine. A drought lasting for ten years between 1830 and 1840 is mentioned by Masson. The population is, however, sparse and exceedingly hardy, and they have ready access to Sind, where good wages are obtainable. In the Census of 1901 as many as 47,345 Brāhuis were enumerated there. Advances amounting to about Rs. 29,000 were made by the State in 1900, when the scarcity which had begun in 1897 reached its culminating point. Such advances are recovered from the cultivator's grain heap at the ensuing harvests.

The control exercised by the British Government over the Brahui confederacy, and the administrative arrangements in areas subject to the direct authority of the Khān of Kalāt, are described in the article on BALUCHISTAN. Except Khārān and Makrān, each main division of the State comprises both tribal areas and areas subject solely to the Khān. Collateral authority is, therefore, exercised by the Khān in his niābats and by tribal chiefs in their country. The intervention of the Political Agent is confined. as far as possible, to deciding inter-tribal cases or cases between the tribesmen and the Khān's subjects in which a right of arbitration rests with the British Government. In Makran the Khan's nasim exercises authority everywhere; in Khārān the chief is now subject to no interference from the Khan, but looks to the Political Agent in Kalat. The Ouetta, Nushki, and Nasîrābād tahsīls have been leased in perpetuity by the State to the British Government, and the right to levy transit dues in the Bolan Pass has been commuted for an annual subsidy of The head-quarters of the Political Agent were fixed at Rs. 30,000. Mastung in 1904.

The revenue of the State is derived from three principal sources: subsidies and rents paid by the British Government, interest on investments, and land revenue. The subsidies include Rs. 1,00,000 paid under the treaty of 1876 and Rs. 30,000 for the Bolan Pass, while the quit-rents for the leased areas mentioned above amount to Rs. 1,51,500. Since 1893 a surplus of 41-5 lakhs has been invested in Government securities, yielding in interest 1-5 lakhs per annum. From this source are defrayed the cost of maintenance of the former Khān, Mīr Khudādād, the subsidies paid to the Jhalawān chiefs, the pay of Brāhui thānas, and the expenses of the administration of Makrān. The total income of the State may be estimated at between $7\frac{1}{2}$ and $8\frac{3}{4}$ lakhs of rupees, the variations being due to fluctuations in the land revenue. The expenditure amounts to about $3\frac{1}{4}$ or 4 lakhs. A sum of Rs. 53,000 is expended annually in the State by the British Government, in the

shape of telegraph subsidies, payments to chiefs for controlling their tribesmen, and the maintenance of levies. To this will now be added the charges, amounting to about 1-2 lakhs per annum, for the Makrān Levy Corps.

Land revenue is collected in kind, the rates varying from one-third to one-eighth of the produce. Cesses are also taken, the amount of which differs in almost every village, but which raise the share taken by the State to nearly one half. Here and there are to be found cash assessments (zar-i-kalang or zar-i-shāh). The cultivators also perform certain services for the Khan, such as the escort of his horses and the repairs to the walls of his forts. Transit dues (muhāri) are levied on caravans passing through the niabats, and octroi (sung) on their entering and leaving trading centres. Contracts are given for the sale of liquor, meat, &c. The total land revenue varies with the agricultural conditions of the year. In 1903-4, on the introduction of a new system of administration, it rose to 4.5 lakhs. Large areas are held by tribesmen and tribal chiefs, in which the Khan is entitled to no revenue. In others, half the revenue has been alienated by the Khan (adh-ambāri). Many of these jāgtrs were originally held on the condition of feudal service. In Makran the Gichkis, Nausherwanis, Bizanjaus, and Mirwaris are the principal holders, while in Kachhi the jagirs are held by Brāhuis and Baloch. In such areas the tribal chiefs claim complete independence in all revenue, civil, and criminal matters. adh-ambari areas the Khān retains jurisdiction.

The army is an irregular force, without organization or discipline, consisting of 300 infantry, 300 cavalry, and 90 artillery with 29 old-fashioned guns, of which none are serviceable. The infantry is divided into two regiments, and the cavalry into three. The total cost amounts to about Rs. 82,000 per annum. Most of the troops are at Kalāt: detachments are stationed at Mastung and Khuzdār, and in Kachhi. Sepoys are paid Rs. 6 a month; non-commissioned officers, Rs. 7 to Rs. 12; while risāldārs and commandants receive from Rs. 20 to Rs. 50. The cavalry soldiers are mounted on horses found by the State. A force of 160 men is also maintained in Makrān, at an annual cost of about Rs. 32,000. Between 1894 and 1898 a body of 205 inlantry and 65 camelmen under a British officer, known as the Kalāt State Troops, was maintained, but has been disbanded.

At the most important places in the Khān's niābats levies, known as amla, are stationed. These men are used for all kinds of duties, both revenue and criminal. They number 222, of whom 118 are mounted on their own horses and 64 are supplied with horses, when required, by the Khān. The remainder are unmounted. They are paid in kind, and get Rs. 18 per annum in cash. The total cash payments made to them amount to about Rs. 4,000. For dealing with cases in which

Brāhuis are concerned, thānas, manned by Brāhui tribesmen, are located in different parts of the country. They number eleven, with roo men. In tribal areas and jāgīrs the peace is maintained by the chiefs, subsidies amounting to about Rs. 50,000 being paid by the Khān for this purpose in addition to the amounts paid by the British Government. A force of ten police is attached to the Political Adviser to the Khān for escort duty. One jail is maintained, with accommodation for 100 prisoners, and there are lock-ups at the Brāhui thānas. Offenders are often kept in the stocks, and are fed by their relations.

Education has hitherto been entirely neglected, but a large school is about to be opened at Mastung. A few boys are taught in mosque schools, and Hindu children receive education from their parents. Two dispensaries are maintained, one by the British Government and the other by the State. They relieved 8,919 patients in 1903 and cost Rs. 5,300. Inoculation is practised everywhere, principally by the Saiyids and Shaikhs, but the people have no objection to vaccination. The whole country has been surveyed on the ½-inch scale up to 66° E.; the results of a reconnaissance survey westward have been published on the 3-inch scale.

[Baluchistān Blue Books, Nos. 1, 2, and 3 (1887); H. Pottinger, Travels in Beloochistan and Sinde (1816); C. Masson, Narrative of a Journey to Kalāt (1843): fourneys in Baluchistān, Afghānistān, and the Punjab (1842); G. P. Tate, Kalāt (Calcutta, 1896).]

Kalāt Town.—Capital of the Kalāt State in Baluchistān, situated in 29° 2' N. and 66° 35' E., 881 miles from Quetta on the south of the Sarawan division. It is known to the natives as Kalat-i-Baloch and Kalāt-i-Sewa: the former to distinguish it from Kalāt-i-Ghilzai in Afghānistān, and the latter after its legendary founder. The population (1901) does not exceed 2,000 persons. The inhabitants are chiefly the Khān's troops, numbering 401, and his retainers, with a few Hindu traders. The town occupies a spur of the Shāh-i-Mardān hill on the west of the Kalāt valley. A wall surrounds it, with bastions at intervals. Its three approaches on the north, south, and east are known respectively as the Mastungi, Gilkand, and Dildar gates. Three suburbs lie close by. Commanding the town is the miri or citadel, an imposing structure in which the Khan resides. Kalat fell into the hands of the Mirwaris about the fifteenth century, since which time the place has remained the capital of the Ahmadzai Khāns. In 1758 it withstood three assaults by Ahmad Shāh Durrani, and in 1839 was taken by the British under General Willshire. A year later it surrendered to the Sarawan insurgents. Below the citadel lies a Hindu temple of Kalf, probably of pre-Muhammadan date. The marble image of the goddess, holding the emblem of plenty, stands in front of two lights which are perpetually burning. The

trade of the town is chiefly retail business. Taxes on trade are collected by a system of contracts. Police functions are carried out by an official known as mir shab, assisted by watchmen (kotwāls).

Kalataik .-- Ancient site in Thaton District, Lower Burma. See TAIKKALA.

Kalāt-i-Ghilzai.— Fort in the Kandahār province of Afghānistān, situated in 30° 7′ N. and 66° 55′ E., on the road from Kandahār to Ghazni; 5,543 seet above the sea. It stands on the right bank of the Tarnak river, 87 miles from Kandahār and 229 from Kābul. The fort was occupied in 1842 by a sepoy garrison under Captain Craigie, which gallantly repulsed a determined Afghān attack in greatly superior numbers. In memory of this seat of arms, the 12th Pioneers still bear the name of 'The Kelat-i-Ghilzai Regiment,' and carry a special colour with the motto 'Invicta.' The fort was again held by a detachment of British troops in 1879-80. In the winter months the cold is very great: during spring and summer the climate is pleasant. The fort gives its name to one of the districts of the Kandahār province.

Kalburga. — Town in Gulbarga District, Hyderābād State. See Gulbarga.

Kale Subdivision. South western subdivision of the Upper Chindwin District, Upper Burma, containing the Masein, Kalewa, and Kale townships.

Kale. South-western township of the Upper Chindwin District, Upper llurma, lying along the eastern slopes of the Chin Hills, between 22° 40′ and 23° 41′ N. and 93° 58′ and 94° 16′ E., with an area of 816 square miles. The population in 1901 was 10,691, distributed in 94 villages, Kalemyo (population, 881), on the Myittha stream, about 20 miles from its mouth, being the head-quarters. The township, which possesses a pestilential climate, consists of the valleys of the Myittha and its inbutary the Neyinzaya chaung, which flows past the village of Vazagyo in a southerly direction to meet it. The area cultivated in 1903 4 was 34 square miles, and the land revenue and thathameda amounted to Rs. 34,000. The township was formed after the Census of 1901.

Kāle.—Village in the Karād tāluka of Sātāra District, Bombay, situated in 17° 14' N. and 74° 13' E., 31 miles south-by-east of Sātāra town. I opulation (1901), 5,077. Near it lie the Agashiv caves, the oldest Buddhist caves in the District.

Kalewa Township.—Southern township of the Upper Chindwin District, Upper Ilurma, lying on either side of the Chindwin river, between 23° 1′ and 23° 17′ N. and 94° 14′ and 94° 30′ E., with an area of 184 square miles, nearly the whole being a mass of low hills. The population in 1901 was 3.535, distributed in 36 villages. The head-quarters are at Kalewa (population, 1,036), situated at the junction

of the Myittha and Chindwin rivers, about 40 miles below Kindat. The area cultivated in 1903-4 was 11 square miles, and the land revenue and thathameda amounted to Rs. 10,000. The township was formed after the Census of 1901.

Kalghatgi.—Western tāluka of Dhārwār District, Bombay, lying between 15° 2' and 15° 22' N. and 74° 56' and 75° 8' E., with an area of 275 square miles. There are 99 villages, but no town. The head-quarters are at Kalghatgi. The population in 1901 was 53,657, compared with 55,258 in 1891. The density, 195 persons per square mile, is much below the District average. The demand for land revenue in 1903-4 was 1·3 lakhs, and for cesses Rs. 9,000. Most of the country is broken by wooded hills. The east and south are open and rolling, with bushy uplands. The north and west are wilder. The supply of water is on the whole plentiful. The rainfall in the west is heavier than in the rest of the tāluka--the average at Kalghatgi village being 36 inches a year.

Kali.—River of Nepal and the United Provinces, better known as the Sarpa.

Kaliākherī.—Head-quarters of the Nizāmat-i-Janūb or southern district of Bhopāl State, Central India, situated in 23° 2′ N. and 77° 40′ E., 6 miles by metalled road from Hirania station on the Midland section of the Great Indian Peninsula Railway. Population (1901), 1,333. It contains a school and British and State post offices.

Kallāna (or Chal-Kalyāna).—Town in the Dādri tahsīl of Jīnd State, Punjab, situated in 28° 33' N. and 76° 16' E., 5 miles east of Dādri town. Population (1901), 2,714. It was the capital of Kalyān of the Chal tribe, a Rājā who in 1325 rebelled against Alaf Khān, son of Ghiyās-ud-dīn Tughlak, king of Delhi, and was defeated and slain by Saiyid Hidāyatullah Khān, who also fell and whose tomb still exists.

Kallandroog. — Tāluk and town in Anantapur District, Madras. See Kalyandrug.

Kali Baori. - Bhūmiāt in the BHOPAWAR AGENCY, Central India.

Kālīganj.—Village in the Sātkhira subdivision of Khulnā District, Bengal, situated in 22° 27′ N. and 89° 2′ E., on the Kānksiāli river. Population (1901), 47. Kālīganj lies on the boat-route between Calcutta and the eastern Districts, and has a large bazar and considerable local trade. It is also noted for its manufacture of earthenware, horn, and cutlery.

Kālimpong (or Dālingkot).—A hilly tract in Darjeeling District, Bengal, lying between 26° 51′ and 27° 12′ N. and 88° 28′ and 88° 53′ E., with an area of 412 square miles. It is situated east of the Tīsta, west of the Ni-chu and Di-chu (Jaldhākā), and south of the State of Sikkim,

and was acquired from Bhutan after the campaign of 1864-5. Of the total area, 214 square miles are occupied by 'reserved' forests and 10 square miles by four tea gardens. while 170 square miles are reserved for native cultivation; five-sixths of the inhabitants are settled on the khās mahāls or state lands. The country is cut up by ridges of varving height and steepness, separated by narrow valleys, the principal of which run back far into the mountains. These ridges debouch into the plains at elevations ranging from 300 feet to 1.000 feet above sealevel, rising in the interior to 10.500 feet at Rishi La. Over a large portion of the tract the 'reserved' forests cover the tops of the ridges and the bottoms of the valleys, while the cultivated area occupies the intervening space. The land above 5.000 feet is mostly, and that above 6,000 feet almost entirely, under 'reserved' forest, which also covers most of the area below 2.000 feet. The chief crop grown is maize, which occupies 38,000 acres, or more than three-quarters of the net cropped area. A new settlement of the land revenue was completed in 1003; the demand is Rs. 10,000 per annum, and Rs. 1,300 is realized from cesses. A poll tax was originally levied, which was gradually replaced by block rates, and these have in their turn given way to a differential classification and assessment of the lands within cach block.

The land has been classified for revenue purposes as cardamom, held rent free for the first three years, during which there is practically no out-turn, after which it is assessed at Rs. 10 per acre; terraced rice lands, paying from 8 annas to Rs. 1-4 per acre; unterraced cultivation, including fallows of less than three years' standing, paying 6 annas to 15 annas per acre; and fallows of three years' standing and over, paying from 2 to 3 annas per acre. Some lands in each of the last three classes are assessed at a slightly lower rate for the first few years of the settlement. The estate has been divided into 48 blocks, excluding Kālimpong bazar, each under a headman or mandal, who is responsible for the collection of rents, the repair of roads, and certain other duties, in return for which he receives a percentage on the collections and certain other privileges. The total rental of the khās mahāls for 1903-4 was Rs. 31,000, and they are exempt from the payment of cesses. The chief village in the estate is Kalimpong; and there are large bazars at Pedong on the Tibetan trade route, and at Sombari at the end of the Chel valley, where the produce of the hill cultivators is sold to the cultivators of the Duars. The forests and the colliery at Daling have been referred to in the article on DARJEELING DISTRICT. A new tract has been opened for cinchona cultivation at Munsang. Oranges are grown and exported to the Duars and the tarai.

[C. A. Hell, Settlement Report (Calcutta, 1905).]

Kalimpong Village.-Village in the head-quarters subdivision of

Darieeling District. Bengal, situated in 27° 4' N. and 88' 28' E., 3.032 (cet above sea-level. Population (1901), 1.069. The village. which has given its name to the tract of hilly country formerly known as Dalingkot, is the established market for Tibetan wool and other exports, and contains a large bazar. The wool, which is brought in via the Jelep La from Tibet, is dispatched by carts along the Tista valley road to Siliguri on the Eastern Bengal State Railway. Since 1801 a fair has been held annually in November at Kālimpong, at which agricultural produce and stock are exhibited and prizes are given both in cash and in the form of English poultry and selected seed: this is the most successful agricultural show in Bengal, and is supported by subscriptions supplemented by a Government grant. More than 100 Tibetan mules are annually purchased here by Government for transport purposes at an average price of Rs. 150. A branch of the Church of Scotland Mission, established at Kalimpong, possesses a church, an Anglo-Hindi middle school with 4 masters and 55 pupils, and a hospital with 28 beds in connexion with the Government dispensary. The St. Andrew's Colonial Homes were instituted in 1000. under the auspices of the Church of Scotland, for the education of poor European and Eurasian children. The object of these homes is to give the children, in a healthy District and favourable environ ment, such a course of training as will fit them for emigration to the Colonies, or make them more robust for work in India. The scheme is managed by an independent committee, and the system adopted is that of cottage homes, each cottage holding 25 to 30 children. Originally 100 acres of land were granted by Government and an agricultural expert was appointed to superintend the outdoor work. The board of management have since obtained permission to acquire a tract of about 330 acres more and to hold it in the position of a ryot; of this, about 200 acres have already been acquired. The first cottage was opened in 1901, and three other cottages and a central school have since been added.

Kālī Nadī, East (properly Kālindī, corrupted into Kālī Nadī or 'black river' by Persian writers).—River of the United Provinces, flowing through the Districts of Muzaffarnagar, Mecrut, Bulandshahr, Alīgarh, Etah, and Farrukhābād. It rises under the name of Nāgan in Muzaffarnagar (29° 19′ N., 77° 48′ E.), but in this District as well as in Mecrut its bed is ill-defined and often dry. In Bulandshahr it becomes a perennial stream, running through a valley marked by high banks, and takes the name of Kālī Nadī. Its course then changes from south to south-east till it joins the Ganges not far above Kanauj, 310 miles from its source. The valley of the river in Bulandshahr, and in Etah, Mainpurī, and Farrukhābād, has suffered from the inability of the channel to carry off excessive rainfall, the effects in Bulandshahr

being augmented by the use of the river as a canal escape. Of late years, however, the Irrigation department has carried out a number of works to improve the flow, and deterioration has stopped. In 1885 a flood swept away the Nadrai aqueduct in Etah, which carries the Lower Ganges Canal over the river, and a series of wet seasons caused the land in the valley to deteriorate so much that large reductions of assessment were made. This tract has now recovered to a great extent.

Kali Nadi, West.—A tributary of the Hindan, about 70 miles long, rising in the Sahāranpur District of the United Provinces (30° N., 77° 45′ E.), 16 miles from the Siwāliks, and flowing south-west and south through Sahāranpur and Muzaffarnagar, between the Hindan and the Ganges Canal. Its junction with the Hindan is at the point where the latter river enters Meerut.

Kalinga. -- One of the ancient kingdoms on the east coast of India. Its limits have been variously fixed, but it appears to have included the country lying between the Eastern Ghāts and the sea from the Godavari river as far north as Orissa. Its people and its reigning house are alluded to in the oldest extant chronicles of India and Cevlon, and were also known to the classical writers of Greece and Rome and to the inhabitants of the Far East. They appear to have been adventurous traders by sea to different countries. The earliest Buddhist legends speak of the Kalinga monarchs as being even then the rulers of a civilized country, but little definite is known of them. A number of kings belonging to the Eastern Gangas of Kalinga are named in connerplate grants, which are dated in an era whose starting-point has yet to be settled. The earliest of these kings is believed to belong to the seventh century. Later records of the same family state that the Gangas of Kalinga were the cousins of the Western Gangas of Mysore. At the beginning of the eleventh century the Cholas overran Kalinga, which was then in the possession of the Eastern Chālukyas, and set up a pillar of victory on the Mahendragiri hill. The Gangas appear to have held Kalinga until a comparatively late period, though defeated by the Gajapatis in the fifteenth century. Inscriptions recently deciphered seem to show that their capital, for which very various sites have been at different times assigned, was at MUKHALINGAM in Ganjām District.

Kalingāpatam.- Historic village in Ganjām District, Madras. See Calingapatam.

Kälinjar. Town and hill-fort in the Girwän talist of Bāndā District, United Provinces, situated in 25° 1′ N. and 80° 29′ E., 35 miles south of Bāndā town. Population (1901), 3,015. The fort occupies a hill which rises abruptly, and is separated from the nearest eminence by a valley about seven miles across. Elevation, 1,203 feet above the sea. The crown of the hill is a plateau. Vast polyhedral masses of

syenite form the base and afford a comparatively accessible slope, but the horizontal strata of sandstone which cap the whole present so bold an escarpment as to be practically impossible of ascent.

Kālinjar is one of the very ancient forts of Bundelkhand, and separate names for it are recorded in each of the three prehistoric periods of Hindu chronology. It is said to have been called Ratnakūta in the Satya-yuga, Mahāgiri ('the great hill') in the Tretā, and Pingālu (the 'brown-yellow' hill) in the Dwāpara-yuga. Other accounts transpose or vary these names. But its present appellation, Kālinjar, is itself of great antiquity. It occurs, as will be mentioned hereafter, in the Mahābhārata; it is conjectured to appear in Ptolemy under the name of Tamasis; and it is mentioned in the Siva Purāna as one of the nine utkals, from which will burst forth the waters that are finally to destroy the world. The modern name is sometimes rendered Kālanjar, from the local worship of Siva under his title of Kālanjara, or 'He who causes time to grow old.' It was a very ancient seat of Saivite rites, and according to local traditions was strongly fortified by Chandra Brim or Varmma, the legendary founder of the Chandel dynasty.

As in many other cases, Kāliniar was a high place sanctified by superstition, and fortified partly by nature and partly by art. Mahābhārata mentions it as already a famous city, and states that whoever bathes in the Lake of the Gods, the local place for pilgrimage, is as meritorious as he who bestows in charity one thousand cows. The hill must have been covered with Hindu temples before the erection of the fort, for the dates of the inscriptions on the sacred sites are earlier than those on the gates of the fortress; and the ramparts consist largely of ornamental pillars, cornices, and other fragments of carved work, which evidently belonged to earlier edifices. Firishta speaks of it as having been founded by Kedar Nath, a reputed contemporary of the Prophet, in the seventh century A.D. The Musalman historians make mention of the king of Kaliniar as an ally of Jaipal. Rājā of Lahore, in his unsuccessful invasion of Ghazni, A.D. 978. A Rājā of Kālinjar was also present at the battle of Peshāwar, fought by Anand Pal in 1008, when endeavouring to check the victorious advance of Mahmud of Ghazni in his fourth expedition. In 1021 Ganda or Nanda, the Chandel Raja of Kaliniar, defeated the king of Kanauj; and in 1023 Mahmud of Ghazni besieged the fort, but came to terms with the Raja. The Chandel clan of Rajputs removed the seat of their government from MAHODA to Kalinjar after their defeat by Prithwi Rāi, the Chauhān ruler of Delhi, about 1182. In 1203 Kuth-ud-din, the viceroy of Muhammad Ghori, took Kālinjar, and 'converted the temples into mosques and abodes of goodness,' while 'the very name of idolatry was annihilated.' But the Musalmans do not seem to have long retained possession of their new conquest;

for in 1234, and again in 1251, we hear of fresh Muhammadan attacks on Kālinjar, which fell into the hands of Malik Nusrat-ud-dīn with a great booty. In 1247 Sultān Nāsir-ud-dīn Mahmūd brought the surrounding country under his sway; but even after this date, Chandel inscriptions erected in the fort show that it remained in the hands of its ancient masters almost up to the close of the thirteenth century.

Kaliniar next reappears in history in 1530, when the Mughal prince, Humavun, son of Babar, laid siege to the fort, which he continued intermittently to attack during ten years. In 1545 the Afghan, Sher Shah, marched against the stronghold; during the siege a live shell rebounded from the walls into the battery where the Sultan stood. and set fire to a quantity of gunpowder. Sher Shah was brought out horribly burnt, and died the following day. Before his death. however, he ordered an assault, which was executed with instant success, and his son, Jalal Khan, was crowned in the captured citadel and assumed the name of Islam Shah. In 1560 Majnun Khan attacked the fort, which was finally surrendered to him for Akbar, who constituted it the head-quarters of a sarkar. Under Akbar, Kālinjar formed a jūrīr of the imperial favourite. Rājā Bīrbal. Later it fell into the hands of the Bundelas (see BANDA DISTRICT); and on the death of their national hero. ('hhatarsal, it passed into the possession of Hardeo Sah of Panna. His descendants continued to hold it for several generations, when they gave way to the family of Kaim Is, one of their own dependants.

During the period of Marāthā supremacy, Alī Bahādur laid siege to the fort for two years, but without success. After the British occupation Daryau Singh, the representative of Kaim Jī, was confirmed in possession of the fort and territory. But on his proving contumacious in 1812, a force under Colonel Martindell attacked Kālinjar; and although he failed to take the place by storm, Daryau Singh surrendered eight days later, receiving an equal portion of territory in the plains. During the Mutiny, a small British garrison retained possession of the fort throughout the whole rebellion, aided by the Rājā of Pannā. In 1866 the fortifications were dismantled.

The summit of the rock is between 4 and 5 miles in circuit, and is fortified by a rampart rising from the very edge. Access is obtained by a sloping pathway and flight of steps passing through seven gateways, several of which bear inscriptions. Numerous rock-cut tanks and a few remains of temples are to be seen on the plateau, and religious carvings and inscriptions are scattered about, some of which have yielded valuable historical results. One temple, dedicated to Nilkanth, is still in good repair. There are also many caves, some of which contain inscriptions,

KĀLKA 313

The town is locally known as Tarahti, and is situated at the foot of the hill. It is now of small importance; but the ruins of fine residences and many old remains prove it to have been once rich and important. Tarahti contains a dispensary, and was till recently administered under Act XX of 1856, but its importance is decreasing. There is a village school.

[Journal, Asiatic Society of Bengal, vol. xvii, pp. 171 and 313; Cunningham, Archaeological Survey Reports, vol. xxi, p. 20.]

Kālinjara.—Village in the State of Bānswāra, Rājputāna, situated in 23° 21' N. and 74° 19' E., on the right bank of the Hāran stream, a tributary of the Anās, 17 miles south-west of the capital. It was formerly a place of considerable trade carried on by Jain merchants, who were driven away by Marāthā freebooters. It is now the head-quarters of the southern of the two districts into which the State has been recently divided, and possesses a small Hindī school attended by about 20 boys. The place is remarkable as containing the ruins of a fine Jain temple, described by Heber as being built on a very complicated and extensive plan. It is covered with numerous domes and pyramids and divided into a great number of apartments, roofed with stone, crowded with images, and profusely embellished with rich and claborate carvings.

[Bishop Heber, Narrative of a Journey through the Upper Provinces of India, vol. ii (1828).]

Kali Sind,—Tributary of the CHAMBAL, draining part of Central India and Rājputāna. It rises in the Vindhyas in 22° 36' N. and 76° 25' E., at the village of Barihiri, and flows for about 180 miles through the Gwalior, Dewas, Narsinghgarh, and Indore States in Central India, after which it traverses Kotah and Ihalawar in Raiputana, piercing the Mukandwara hills near Gagraun, and falls into the Chambal, 225 miles from its source, near the village of Pipara in Kotah State (25° 32' N. and 76° 19' E.). Its principal tributaries are the Lakundar in Central India, and the Pārwān, Uiar, and Ahu in Rajputana. Though a perennial stream, the volume of water is small except in the rains, and several roads cross the river by causeways. The Ujjain-Bhopal Railway, however, passes over a bridge near the Kall Sind station. Water for irrigation is raised from its bed in the upper part of its course, but lower down the banks become too steep. The river is frequently referred to in Sanskrit literature, and is mentioned by Abul Fazl as one of the principal rivers of Mālwā. Sārangpur and Gāgraun are the principal places on its banks. It is probable that Kali ('black') Sind derives its name from the prevalence of black basalt in its bed.

Kālka.—Town attached for administrative purposes to the Kharar tahsīl of Ambāla District, Punjab, situated in 30° 50′ N. and 76° 57′ E.,

314 KĀLKA

at the foot of the outlying range of the Himālayas at an elevation of 2,400 feet, and entirely surrounded by Patiāla territory. It is the junction of the Delhi-Umballa-Kālka and Kālka-Simla Railways. Population (1901), 7,045. Kālka was acquired from Patiāla in 1843 as a dépôt for Simla; it is also an important market for hill produce, such as ginger and turmeric. There is a considerable manufacture of millstones, and a railway workshop is situated here, which employed 200 hands in 1904. It is administered as a 'notified area.'

Kallakurchi.-Western tūluk of South Arcot District. Madras. lying between 11° 34' and 12° 4' N. and 78° 38' and 79° 13' E., with an area of 873 square miles. The KALRAYANS, one of the only two hill-ranges in the District, skirt its western border, and south of them the Atur pass leads into Salem District. The population in 1001 was 260, 377, having risen from 230,405 in 1801. There are no towns; but it contains 367 villages, of which Kallakurchi, the head-quarters, is situated on the trunk road from Cuddalore to Salem. It is the second largest tāluk in the District, and the second most sparsely peopled. The demand for land revenue and cesses in 1003-4 amounted to Rs. 4.02.000. In the hills in the west rise several small streams, which are utilized for irrigation by means of rough stone dams. The hill villages, which number 96, are divided into three pālajyams or estates. The poligars or chiefs obtain their revenue chiefly by leasing out the forests and by a poll-tax on their tenants, who are all Malaivalis by caste. There is no irrigated cultivation on the hills: the principal 'dry crops' grown are ragi, cambu, tinai (Setaria italica, a poor kind of millet), and varagu. Bamboos and timber of various kinds are taken down to the plains, and sold for house-building and other purposes.

Kallianpur.—Village in the Udipi tāluk of South Kanara District, Madras, situated in 13° 24′ N. and 74° 44′ E. It is conjectured to have been the Kalliana mentioned by Cosmas Indicopleustes as the seat of a bishop in the sixth century. It is also the reputed birthplace of Madhvāchārya, the Vaishnavite reformer, who was born about A.D. 1199. The Portuguese established a factory here in 1678.

Kallidaikurichi.—Town in the Ambāsamudram tāluk of Tinnevelly District, Madras, situated in 8° 41′ N. and 77° 27′ E., on the Tambraparni river. It is a Union, with a population (1901) of 14,913. It contains a large number of Brāhmans, several of whom are engaged in a flourishing cloth trade with Travancore, while others are also bankers. The fields around the town are well watered and very valuable.

Kallikota and Atagada.—Two permanently settled estates in Ganjām District, Madras, lying between 19° 28' and 19° 52' N. and 84° 43' and 85° 12' E., on the northern boundary of the Presidency.

While the former is impartible, the latter is partible, and was acquired in 1854 by the zamindar of Kallikota by purchase at a sale for arrears of revenue. The joint area of the two is 507 square miles and their population (1901) 169,693. The peshkash and cesses payable by them in 1903-4 amounted to Rs. 1,11,000. The chief village, Kallikota, is beautifully situated in a basin surrounded by hills.

The Kallikota family was founded by Rāmabhuya, who was made a zamindār by the Gajapati king of Orissa, Purushottama. At a later period he obtained the title of Mardarājā Deo for his services in keeping the Marāthās out of the country. In 1769 the estate was in a disturbed condition and was occupied by British troops, and from 1771 to 1775 troops were again employed in maintaining order.

The soil is fertile and well irrigated, and yields good crops. The prevailing tenure is *mustājiri*, under which the villages are rented out to middlemen who collect the assessment. The rent payable by the tenant to the landlord is generally half the gross produce.

The present Rājā succeeded in 1887 as a minor, and the estates were managed for the next five years by the Court of Wards. During this period Rs. 93,000 was spent on repairs to irrigation works, Rs. 1,34,000 of debt was cleared off, and the property was handed over to its owner in 1893 in a flourishing condition, with an income which had been increased from Rs. 2,41,000 to Rs. 3,17,000, and with a cash balance of Rs. 2,11,000. Within the next ten years the Rājā had dissipated this balance, incurred further debts, and mortgaged the two estates to his creditors.

Kallūr Tāluka (formerly called Madhra). -Southern tāluk of Warangal District, Hyderābād State, north of the Kistna District of Madras, with an area of 966 square miles. The population in 1901, including jūgārs, was 103,829, compared with 92,738 in 1891. The tāluk contains 184 villages, of which 25 are jūgūr, and Kallūr (population, 2,741) is the head-quarters. The land revenue in 1901 was 2.5 lakhs. The Nizām's Guaranteed State Railway passes through the tāluk from north-west to south-east. Rice is largely cultivated near tanks. The diamond mines of Partyal are situated in this tāluk.

Kallūr Town.—Town in the Raichūr tāluk of Raichūr District, Hyderābād State, situated in 16° 9' N. and 77° 13' E., 10 miles west of Raichūr town. It has three temples built of stone, all in good preservation, and two mosques. Population (1901), 6,456.

Kalmeshwar.—Town in the District and talist of Nagpur, Central Provinces, situated in 21° 14′ N. and 78° 56′ E., 13 miles west of Nagpur city by road. Kalmeshwar is supposed to have been founded by nomad Ahīrs or herdsmen, and the name is derived from that of their god Kalma. Population (1901), 5,340. The town stands on black soil, lying low, with bad natural drainage. On a small eminence in its

centre is an old fortress, said to have been built by a Hindu family from Delhi in the time of Bakht Buland. Kalmeshwar was constituted a municipality in 1867. The municipal income during the decade ending 1901 averaged Rs. 4,400. In 1903-4 the income was Rs. 5,000, mainly derived from a house tax and market dues. A weekly cattle market is held, and there is some trade in grain and oilseeds. Cotton cloth is woven by hand. There is an English middle school.

Kāina Subdivision.—South-eastern subdivision of Burdwān District, Bengal, lying between 23° 7′ and 23° 36′ N. and 88° 0′ and 88° 25′ E., with an area of 399 square miles. This subdivision, like the adjoining subdivision of Kātwa, is flat and alluvial, and the eastern portion along the bank of the Bhāgīrathi is low-lying and marshy. The population in 1901 was 233,269, compared with 231,512 in 1891, the density being 585 persons per square mile. It contains one town, Kālna (population, 8,121), its head-quarters; and 698 villages. Nādanghāt possesses a large river trade in rice.

Kaina Town. - Head-quarters of the subdivision of the same name in Burdwan District, Bengal, situated in 23° 13' N. and 88° 22' E., on the right bank of the Bhagirathi. Population (1901), 8.121. Kalna was a place of great importance in Muhammadan times, and the ruins of a large fort which commanded the river are still to be seen. It was formerly the port which supplied the District, and steamers still visit it throughout the year; but it has suffered owing to the competition with the East Indian Railway, and its population has declined. A conspicuous feature of the town is a group of 100 Siva lingam temples. which were built in 1800. Kālna was constituted a municipality in The income during the decade ending 1001-2 averaged Rs. 13,000, and the expenditure Rs. 11,000. In 1903-4 the income was Rs. 16,000, of which Rs. 4,000 was derived from a tax on persons (or property tax) and Rs. 4,000 from a tax on vehicles, &c.; and the expenditure was Rs. 14,000. The town contains the usual public offices; the subsidiary jail has accommodation for 20 prisoners.

Kalni. River in Assam. See SURMA.

Kālol Tāluka (1). Southern tāluka of the Kadi prānt, Baroda State, with an area of 267 square miles. The population fell from 97,089 in 1891 to 80,532 in 1901. It contains one town, Kālol (population, 6,465), the head-quarters, and 88 villages. The tāluka presents the appearance of a fairly wooded and well-cultivated plain. The Sābarmati river just touches its western boundary. The surface soil is gorāt, or of a light sandy nature. In 1904-5 the land revenue was Rs. 2,15,000.

Kalol Town.—Head-quarters of the tāluka of the same name, Kadi prānt, Baroda State, situated in 23° 15' N. and 72° 32' E., on the

Rājputāna-Mālwā Railway. Gaikwār's State lines run from here to Vijāpur on one side, and to Kadi on the other. Population (1901), 6,465. Kālol contains Munsif's and magistrate's courts, a dispensary, a vernacular school, and local offices. An annual grant of Rs. 1,300 is made to the municipality. The town is the centre of a considerable trade in grain.

Kālol Tāluka (2). - Southern tāluka of the western portion of Panch Mahals District, Bombay, including the petty subdivision (petha) of Halol, lying between 22° 15' and 22° 44' N. and 73° 22' and 73° 44' E., with an area of 414 square miles. It contains one town. Kālol (population, 4,446), the head-quarters; and 252 villages. Population in 1901 was 73,796, compared with 87,851 in 1801, the decrease being due to famine. The density, 178 persons per square mile, slightly exceeds the District average. Kālol forms a rich well-wooded plain; its fields fenced with hedges and rows of brab palms; its villages compact and comfortable. Three rivers cross the tāluka: from east to west the Mesri in the north, the Goma in the centre, and the Karād in the south. These rivers become torrents in the rains, and trickling streams in the cold season. Light or gorādu soil lies all over this part of the country; the black cotton soil is not met with. petty division of Hālol is a well-wooded and tilled plain surrounding the hill fort of Pavagarh. To the east and south, low isolated hills stand out from a rich black-soil plain, most of it waste. Within 4 or 5 miles of the hills the climate is unhealthy and the water often deleterious. Three rivers, the Karād, Visvāmitri, and Devnadi, cross Halol from east to west. Water lies near the surface. Cultivation is rude, and the peasantry inert. The annual rainfall averages 37 inches. Land revenue (including Hālol) and cesses in 1003-4 amounted to more than 1-1 lakhs.

Kālpī Tahsīl.—Eastern tahsīl of Jālaun District, United Provinces, conterminous with the pargana of the same name, lying between 25° 53' and 26° 22' N. and 79° 25' and 79° 52' E., with an area of 407 square miles. Population fell from 78,754 in 1891 to 75,692 in 1901. There are 154 villages and one town, Kālpī (population, 10,139), the tahsīl headquarters. The demand for land revenue in 1903-4 was Rs. 1,55,000, and for cesses Rs. 25,000. The density of population, 186 persons per square mile, is the lowest in the District. The tahsīl is bounded on the north-east by the Jumna and on the south by the Betwā, while several small drainage channels enter it from the west and unite to form a stream called the Non. In the south-west the soil is inferior mār, and this tract has recently suffered from bad seasons and is overgrown with kāns (Saccharum spontaneum). Near the Jumna the soil becomes lighter, and on the banks of the vast system of ravines which fringe that river and the smaller streams denudation has reduced the

fertility of the land. In 1899-1900 the area under cultivation was 158 square miles, of which only 9 were irrigated.

Kālpi Town.—Head-quarters of the tahsīl of the same name in Jālaun District, United Provinces, situated in 26° 8′ N. and 79° 45′ E., on the Jumna, on the road from Cawnpore and Saugor, and on the Great Indian Peninsula Railway. Population (1901), 10,139.

According to tradition Kalpi was founded in the fourth century by one Basdeo. It fell into the hands of Kutb-ud-din in 1196, and at once became an important fortress of the Musalmans. In the fifteenth century Ibrahim Shah of Jaunpur made two unsuccessful attempts to scize Kālpi, and in 1435 Hoshang Shāh of Mālwā captured the place. A few years later Ibrāhīm's successor, Mahmūd, was allowed to occupy the town on the plea of chastising the governor. He plundered it. and then refused to restore it to the king of Malwa, but afterwards came to terms. In the struggle between the Jaunpur kingdom and the rulers of Delhi, which ended with the extinction of the former, a great battle took place near Kālpī in 1477, and Husain Shāh of launpur fled to Kanaui, where he was again defeated. When the victory at Pānīpat in 1526 laid open the plains of Hindustān to Bābar, the Rana of Chitor and the Afghans combined to stop his advance, and occupied Kālpī, but were met near the site of Fatehpur Sīkri, as they marched on Agra, and defeated. Kālpī was taken in 1527 by Humāyūn after his conquest of Jaunpur and Bihār, and held till 1540, when the Mughals were defeated by Sher Shah at Kanaui. It was again the scene of fierce contests in the struggles which sapped the Afghan strength before the return to power of the Mughals. Under Akbai Kāloī became the head-quarters of a sarkār, which included the adjacent parts of the present Districts of Etāwah, Cawnpore, and Hamirpur, besides Jalaun and portions of the State of Gwalior. When the Marathas acquired part of Bundelkhand early in the eighteenth century, Kālpi became the head-quarters of their governor. In 1798 the town was captured by the British, but was subsequently abandoned. It again fell into their power, after a few hours' resistance, in 1803, and was granted to Himmat Bahadur. He died in the following year and the grant lapsed, when the town was made over to Gobind Rao of Jalaun, who exchanged it in 1806. After the large District of Bundelkhand was divided into two portions, Kālpi was for a time the headquarters of the northern division, afterwards called HAMIRPUR DISTRICT. During the Mutiny a great victory was won near here, in May, 1858, by Sir Hugh Rose over a force of 12.000 rebels under the Rani of Jhānsi, the Rao Sāhib, and the Nawāb of Bāndā, which did much to quell the rebellion in Bundelkhand.

The town is situated among the ravines of the Jumna, and after a long period of decay is again reviving in importance. The western

KĀLRA 319

outskirt contains a number of old tombs, notably that called the Chaurāsi Gumbaz (or 'eighty-four domes'); but ravines now separate these relics of the past from the dwellings of the living. Old Kalpi stands near the river on an elevated site, and is a good specimen of the older type of North Indian town, with darkened plaster walls and flat roofs interspersed with trees, and here and there a temple spire or a Muhammadan dome. The newer portion of the town stretches south-east, and is lower and farther from the river. On the most prominent edge of the steep bank stand the ruins of a fort, but only a single building has survived. This is a musonry room with walls o feet thick, said to have been the treasury of the Maratha governor. A fine flight of steps leads from the fort to a bathing ghat on the river. A few years ago a lofty tower was built by a local pleader, which is adorned with representations of the battles of the Ramavana. It is noteworthy that less prominence is given to Rāmā than to Rāyana his adversary, who is represented as a gigantic many-armed figure, of dignified aspect, about 80 feet in height. The chief public buildings are the tahsili and dispensary.

Kalpi has been a municipality since 1868. During the ten years ending 1901 the income and expenditure averaged Rs. 11.000. In 1903-4 the income was Rs. 14,000, chiefly derived from octroi (Rs. 0.000); and the expenditure was Rs. 14.000. For many years Kālpī was a great trade centre. Cotton and grain were brought from the south, and sent away to Cawnpore or down the Jumna to Mirzapur and Calcutta, while the manufactures of sugar-candy and paper were celebrated. The buildings of the East India Company's cotton factory. which was one of the principal stations for providing the annual investment, are still standing. As railways spread and trade routes altered, Kalpi declined, but its commerce is now again increasing, Grain is sent to Southern and Western India, ghi to Bengal, and cotton to Cawnpore or Bombay. Two small cotton-gins have recently been opened, and the Forest department is starting plantations of bahūl for the supply of bank to the Campore tanneries. The tahsili school has 111 pupils, and there are three municipal schools with 170, and a girls' school with 19.

Kālra.—Estate in the District and tahsil of Shāhpur, Punjab, with an area of 13 square miles. For services in the Mutiny a member of the Tiwāna family of Mitha Tiwāna, named Malik Sāhib Khān, Khān Bahādur, C.S.I., obtained a grant of 8,700 acres of waste land in the Shāhpur: tahsīl. To irrigate this he constructed a canal, and the estate is now a most valuable one. His son, Malik Umar Hayāt, succeeded in 1879. The Malik also owns estates in Shāhpur, Jhelum, and Lyallpur Districts, aggregating nearly 13,000 acres, and the whole property yields an income of about 2 lakhs. Recently the

320 KĀLRA

Malik obtained a horse-breeding grant of 2,270 acres in the Jhelum Colony.

Kalravan Hills.—These hills are situated partly in the Atūr and Uttangari tāluks of Salem District and partly in South Arcot District. Madras, lying between 11° 38' and 12° 4' N. and 78° 28' and 78° 40' E. They stand east of the Tenandamalai, being separated from it by the Kottapatti valley, and are perhaps the largest in superficial extent of the hill ranges in Salem District. Different portions of the range have local names, but the principal divisions are the Periva ('big') Kalravans, which attain an elevation of 4,300 feet, and the Chinna ('little') Kalravans, reaching to little above 3,000 feet. The temple of Kari Raman in the Periya Kalrayans is held in great reverence by the Malaivalis who inhabit these hills. The range is parcelled out into five theirs or estates, the owners of which govern their tenants in a primitive and patriarchal fashion. The fever on the range is so dreaded that few dwellers on the plains ever go up it, and consequently the people have retained many curious customs which differ from those of the low country. They are exclusively of the caste known as Malaivalis: but there is no doubt that they are not a distinct race, but merely Tamils who at some remote period took refuge in these hills from the troublous times through which the plains were passing.

Kālsī.—Town in the Chakrātā tahsīl of Dehra Dūn District, United Provinces, situated in 30° 32′ N. and 77° 51′ E., close to the confluence of the Jumna and the Tons, on the military road from Sahāranpur to Chakrātā, 52 miles from the former and 25 miles from the latter. Three miles away the road crosses the Jumna by an iron girder-bridge. Population (1901), 760. The place has declined owing to the transfer of the tahsīl head-quarters to Chakrātā. Kālsī is administered under Act XX of 1856, the annual income and expenditure amounting to Rs. 300 or Rs. 400. It is chiefly remarkable for a large quartz boulder in the neighbourhood on which are sculptured the celebrated edicts of Asoka; one of these gives the names of contemporary kings in Western Asia, Greece, and Egypt¹.

Kalsia.—Native State in the Punjab, under the political control of the Commissioner, Delhi Division. It comprises twenty detached pieces of territory in Ambāla and Ferozepore Districts, lying mainly between 30° 12′ and 30° 25′ N. and 77° 21′ and 77° 35′ E. The present Sardār of the State, Ranjīt Singh, is a descendant of Sardār Gurbakhsh Singh, a Jat of Kalsia near Lahore, who joined the Krorin misl or confederacy of the Sikhs. His son Jodh Singh, a man of ability and prowess, effected considerable conquests on both sides of the Sutlej, but eventually the family lost all those north of the river. When the Cis-Sutlej States came under British protection, Sardār Jodh

¹ Corpus Inscriptionum Indicarum, vol i, pp. 12 and 117.

Singh, after some hesitation, followed the general example. The State has an area of 168 square miles, and a population (1901) of 67,131. It is divided into two taksils, Chhachhrauli and Basi, with the isolated sub-taksil of Chirak, in Ferozepore District. It contains two towns, Chhachhrauli (population, 5,520) and Basi (4,641); and 181 villages. In 1903-4 the revenue amounted to 1-9 lakhs, of which 1-2 lakhs was land revenue. The State was regularly settled in 1891. It had suffered considerably from over-assessment, and its people had been impoverished. The excise administration is leased to the British Government for Rs. 6,000 per annum.

Kalsūbai.—Hill in Ahmadnagar District, Bombay, situated in 19° 36' N. and 73° 42' E., 5,427 feet high, and the most elevated point in the Deccan. Its summit is crowned by a temple, 10 miles south-east of Igatpuri, a station on the north-east branch of the Great Indian Peninsula Railway. A priest of Devī Kalsū daily climbs to the temple from Indor, a village at the foot of the hill, to offer a sacrifice of fowls. The shrine is visited by large numbers of Kolīs.

Kalugumalzi (kalugu, 'an eagle,' and malai, 'a hill').—Village in the Ettaiyāpuram zamīndāri and the Ottappidāram tāluk of Tinnevelly District, Madras, situated in 9° 8' N. and 77° 42' E., 28 miles north of Tinnevelly town and 12 miles from Sankaranayinārkovil. Population (1901), 4,827. It contains a celebrated rock-cut temple dedicated to the god Subrahmanya, and many Jain sculptures and inscriptions. The temple is similar in style to the Seven Pagodas in Chingleput District, and is thought to have been built in the tenth or eleventh century. An annual festival and cattle fair in February attract a large number of people from the southern Districts and even from Mysore.

Kālukhera. -- Thakurāt in the Mālwā Agency, Central India.

Kalvakurti.—Eastern tāluk of Mahbūbnagar District, Hyderābād State, with an area of 583 square miles. The population in 1901, including jāgīrs, was 54,384, compared with 52,132 in 1891. The tāluk in 1901 contained 101 villages, of which 31 are jāgīr, and Kalvakurti (population, 2,230) is the head-quarters. The land revenue was R4. 85,000. In 1905 this tāluk received some additions from the adjoining tāluk of Jedcherla, and now contains 99 khālsa villages.

Kalvan.—North-western tāluka of Nāsik District, Bombay, lying between 20° 21' and 20° 42' N. and 73° 40' and 74° 20' E., with an area of 494 square miles. There are 188 villages, but no town. The population in 1901 was 53,616, compared with 60,417 in 1891. The density, 109 persons per square mile, is much below the District average. The head-quarters are at Kalvan. The demand for land revenue in 1903-4 was Rs. 91,000, and for cesses Rs. 6,000. The

west is covered with steep bare hills; towards the east the country, though flatter and more fertile, is divided by a spur running south-east from the Western Ghāts; in the south rises the high and rugged Saptashring range, with its lower slopes fringed with teak. The annual rainfall averages 25 inches.

Kalvan Tāluka.—Southern tāluka of Thāna District, Bombay. lying between 19° 4' and 19° 24' N. and 73° 1' and 73° 24' E., with an area of 276 square miles. It contains one town, KALYAN (DODUlation, 10.740), the head-quarters; and 224 villages. The population in 1901 was 77,087, compared with 80,171 in 1801. The density is 270 persons per square mile, or rather more than the District average. Land revenue and cesses in 1003-4 amounted to 2-2 lakhs. The tāluka is triangular in form, and in its western part a rich open plain, In the south and cast, ranges of hills running parallel with the boundary line throw out spurs into the heart of the plain. The transport of produce is facilitated by the tidal creek of the Ulhās river and by the Great Indian Peninsula Railway. The river Kālu is navigable by boats of 10 tons for 0 miles above Kalyan town. There are disagreeable east winds in April and May; but although fever is prevalent in the cold season, the climate is on the whole temperate and healthy.

Kalyān Town.—Head-quarters of the tāluka of the same name in Thāna District, Bombay, situated in 19° 14′ N. and 73° 10′ E., at the junction of the north-east and south-east lines of the Great Indian Peninsula Railway, 33 miles north-east of Bombay. Population (1901), 10,749. Kalyān has been a municipality since 1855. The municipal income during the decade ending 1907 averaged Rs. 19,000. In 1903-4 the income was Rs. 19,579. It has a considerable rice-husking trade, carried on by Muhammadans and some Marāthās. This industry gives occupation to about 750 persons, half of whom are women. There is also a trade in tobacco, dried fish, bricks, tiles, and myrabolams. The streets and lanes in the town are metalled, and kept in clean condition. A ferry plies across the Ulhās river to Kone on the opposite bank. The town has a vegetable market built by the municipality. It is supplied with water from the Shenala lake about a quarter of a mile to the east.

The name of Kalyān appears in ancient inscriptions, which have been attributed to the first, second, fifth, or sixth century A.D. According to the *Periplus*, Kalyān rose to importance about the end of the second century. Cosmas Indicopleustes, in the sixth century, mentions it as one of the five chief marts of Western India, the seat of a powerful king, with a trade in brass, black-wood logs, and articles of clothing. Early in the fourteenth century the Muhammadans found Kalyān the capital of a district, and gave it the name of Islāmābād.

It was taken by the Portuguese in 1536. They did not garrison the town, but, returning in 1570, burnt the suburbs and carried off much booty. From this time it seems to have formed part of the Ahmadnagar kingdom. In 1648 Siyaji's general, Abāji Sondeo, sumrised Kalyan and took the governor prisoner. The Muhammadans recovered the town in 1660, but again lost it in 1662. In 1674 Sivail granted the English leave to establish a factory. The Marathas in 1780 having cut off their supplies. Kalvan was seized by the British, and has since remained in their possession. Objects of interest are the Shenali tank, said to have been built in 1505; the tomb of Motabar Khān, minister of Shāh Jahān, who was sent in disgrace to Kalvān when Aurangzeb usurped his father's throne; and seven mosques, of which the graceful Kālī Masiid is the most noteworthy. The town contains a Sub-Tudge's court, a dispensary, an English school with 87 nupils, 7 vernacular schools for boys with 358 pupils, and one for girls with o6. There are also a library, a small printing press, and a rice-busking mill.

Kalyandrug Tāluk.—Westernmost tāluk of Anantapur District, Madras, lying between 14° 14' and 14° 44' N. and 76° 51' and 77° 23' E., with an area of 817 square miles. The population in 1901 was 76,977, compared with 72,730 in 1891. Originally part of the Dharmavaram tāluk, it was separated at the end of 1893. It contains 70 villages and one town, Kalyandrug (population, 8,815), the head-quarters. The demand for land revenue and cesses in 1903-4 amounted to Rs. 1,30,000. No less than 88 per cent, of the 'dry' land pays an assessment of four annas or less per acre. The tāluk is rocky and barren, the soil stony and very poor, and the rainfall less than 21 inches per annum. Consequently it is bare and uninviting, and the density of population is less than 100 per square mile, being lower than in any tāluk in the Presidency except those which are covered with hill and forest. The northern portion has a little black cotton soil and is slightly richer.

Kalyandrug Town.—Head-quarters of the tāluk of the same name in Anantapur District, Madras, situated in 14° 33′ N. and 77° 6′ E. Population (1901), 8,815. It was formerly a place of some importance, containing a District Munsif's court, but now, being off the railway and in the centre of a very barren tract, it is in a decaying state. It lies in a hollow surrounded by hills, two of which are 2,400 feet high. The ruins of an old fort and the buildings connected therewith still stand, but are of no antiquarian interest. On the higher of the two hills above referred to, and in the neighbouring village of Mudigallu, are some hundreds of prehistoric kistvaens. On the hill are also three curious circular mounds of earth, about 3 feet in height and some 10 or 11 yards in diameter. All round them are planted, upright in

the earth, slabs of stone of irregular shape, which stand from 4 to 5 feet above the ground.

Kalvāni.—A jāgīr town in Bīdar District, Hyderābād State, situated in 17° 53' N. and 76° 57' E., 36 miles west of Bidar town. Population (1901), 11,191. About the middle of the eleventh century Someshwar I made Kalvāni the capital of the Chālukvan kingdom. A hundred years later the power was usurped by Bijjala Kalachuri, the commander-in-chief, and before the close of the twelfth century the Chālukva power was at an end. While Kalvāni remained a great capital, it was noted as the residence of Viinaneshwar, the author of the treatise on law known as the Mitakshara, and of Basava who founded the Lingavat sect. Further particulars about Basava and the Lingavats will be found in the article on Mysore State. The Kalachuris were succeeded by the Yadavas of Deogiri (DAULATABAD): and after the establishment of the Bahmani dynasty. Kalyani passed into their possession in the fourteenth century, and subsequently into that of Bijāpur. The Mughals sacked it in 1653. In 1656 Aurangzeb invested the fortress, which surrendered after an heroic defence. During the contests which followed the decline of Chalukvan power. and the struggles between various Muhammadan rulers, the magnificent temples which once adorned the place were demolished or converted into mosques.

Kama --South-western township of Thayetmyo District, Burma, lying between 18° 52' and 19° 18' N. and 94° 39' and 95° 13' E., and extending from the Irrawaddy in the east to the Arakan Yoma on the west. The area of the township, which is intersected by low hills, is 575 square miles, and it contains 201 villages. The population in 1891 was 41,383, and in 1901, in consequence of emigration to the delta, it had fallen to 39,570 (including 2,500 Chins). The head-quarters are at Kama (population, 1,779), a village situated on low hills on the right or western bank of the Irrawaddy. In 1903-4 the area under cultivation was 50 square miles, paying Rs. 53,000 land revenue.

Kāma.—Tuhsil and head-quarters thereof in Bharatpur: State, Rāiputāna. See Kāman.

Kamadhia.—Petty State in Kāthiāwār, Hombay.

Kamaing.—North-western township of Myitkyinā District, Upper Burma, lying between 25° 30′ and 26° N. and 96° and 97° E., with an area of 2,650 square miles. The population in 1901 was only 9,687, half of whom were Kachins, a fourth Shans, and one-sixth Burmans. It contains 126 villages, of which all but five are in the Kachin Hill Tracts. Kamaing (population, 1,079), where there is a strong military police post, is the head-quarters. In 1903-4 the area cultivated was 600 acres, apart from taunguas; but the greater part of the township is forest. The land revenue and thathameda amounted to Rs. 5,000,

Kamakhya. -- A temple, sacred to Sati, which stands on the beautiful Nilachal hill overhanging the Brahmaputra, about 2 miles west of Gauhāti, in Kāmrūp District, Eastern Bengal and Assam, in 26° 10' N. and or 45' E. According to tradition, the temple was originally built by Naraka, a prince who is said to have flourished at the time of the Mahābhārata, and to have constructed a stone-paved causeway up the hill, which is still in existence. It was rebuilt by Nar Nārāvan about A.D. 1565, and on the occasion of its consecration 140 human heads were offered to the goddess, but only a small portion of Nar Nārāvan's temple now remains. Sati's organs of generation are said to have fallen on the place now covered by the temple, and this fact renders the spot an object of pilgrimage to devout Hindus from every part of Six other temples stand on the hill, and from the summit a magnificent view is obtained over the river and the surrounding country. A grant of revenue-free land, nearly 8,000 acres in extent. made to the goddess by the native rulers of Assam, has been confirmed by the British Government. The most important festivals are the Pous Bia, about Christmas time, when Kāmākhya is married to Kāmeswar, and the Basanti and Durgā būjūs, which are celebrated. the former in the spring, the latter in the autumn.

Kamālia (Kot Kamālia). - Town in the District and tahsīl of Montgomery, Punjab, situated in 30° 43′ N. and 72° 40′ E., 27 miles west of Montgomery town, and 14 from Chichawatni station on the North-Western Railway. Population (1001), 6,976. It is identified by Cunningham as one of the towns of the Malli taken by Alexander. The modern town was founded by a Kharral chief named Khān Kamāl in the fourteenth century. In 1857 the insurgent tribes held the place for a week, and completely sacked it. The municipality was created in 1868. The income during the ten years ending 1902-1 averaged Rs. 0.200, and the expenditure Rs. 8.700. In 1002-4 the income was Rs. 8.800, derived mainly from octroi, and the expenditure Rs. 10.200. Since British annexation a brisk trade in the produce of the Ravi lowlands has sprung up, and the importance of Kamalia has been immensely increased by the opening of the North-Western Railway. The town is now a place of considerable commerce, dealing in wheat, grain, and pulses from the surrounding villages and Thang: eur and sugar from Jullundur and Amritsar; piece-goods from Karāchi. Amritsar, and Delhi. The exports are chiefly cotton, ghi, and wool, Excellent cotton prints and carpets are manufactured. The town contains an Anglo-vernacular middle school, a private high school, and a dispensary.

Kamālpur.—Petty State in Kāthiāwār, Bombay.

Kamalpur. - Thakurat in the BHOPAL AGENCY, Central India.

Kaman.—Head-quarters of a tahsil of the same name in the State

of Bharatpur, Rājputāna, situated in 27° 39' N. and 77° 16' E., about 36 miles north-by-north-west of Bharatpur city. Population (1901), 12,083. The town contains a vernacular school attended by 140 boys, and a dispensary. The old name of the place is said to have been Kadamba-vana (contracted to Kāmavana), from the number of kadamb trees (Anthocephalus Cadamba) found here; another account traces its name to a mythical Rājā Kāmsen. Kāman is one of the twelve holy places of the Braj Mandal (see MUTTRA DISTRICT), and its shrine of Gopīnāth is regularly visited by pilgrims. In the middle of the town is an old fort, in which are many fragments of Hindu sculpture, and a mosque called Chaurāsi Khambā ('84 pillars'). None of these pillars is without ornament, and some are very highly decorated. On one of them is a Sanskrit inscription of the Sūrasenas; it bears no date, but is believed to belong to the eighth century, and records the building of a temple to Vishnu.

[Indian Antiquary, vol. x; Archaeological Survey of Northern India, vol. xx.]

Kāmāreddipet.— Tāļuk in Nizāmābād District, Hyderābād State. In 1901 the area was 413 square miles, and the population, including jāgārs, was 64,933, compared with 63,366 in 1891. The tāluk had 96 villages, of which 25 were jāgār, Kāmāreddipet (population, 2,503) being the head-quarters. The land revenue in 1901 was 2.2 lakhs. In 1905 the tāluk was enlarged by the transfer of villages from the Medak and Rāmāyampet tāluks of Medak District, and Sirsilla in Karīmnāgar (formerly Elgandal). It is hilly in some parts.

Kāmārhāti.—Town in the Barrackpore subdivision of the District of the Twenty-four Parganas, Bengal, situated in 22° 40′ N. and 88° 23′ E., on the east bank of the Hooghly river. Population (1901), 13,216. Within this municipality is the greater part of the village of Dakhineswar, with its group of temples called Rānī Rāsmanī's Nabaratna. These consist of two beautiful central temples, dedicated to Kālī and Krishna, faced by twelve minor temples in honour of Siva. Kāmārhāti was formerly included within the Baranagar municipality, but in 1899 a separate municipality was constituted. The income during the five years since the formation of the separate municipality has averaged Rs. 16,000, and the expenditure Rs. 15,000. In 1903-4 the income was Rs. 17,700, of which Rs. 7,000 was obtained from a tax on houses and lands and Rs. 8,000 from a conservancy rate: and the expenditure was Rs. 16,600.

Kamāsin.— Tahsīl of Bāndā District, United Provinces, conterminous with the pargana of the same name, lying along the Jumna between 25° 17′ and 25° 38′ N. and 80° 47′ and 81° 12′ E., with an area of 358 square miles. Population fell from 83,297 in 1891 to 78,773 in 1901. There are 169 villages, but no town. The demand

for land revenue in 1903-4 was Rs. 1,18,000, and for cesses Rs. 20,000. The density of population, 220 persons per square mile, is slightly above the District average. Besides the Jumna, the Bāghain and Paisuni drain the tahsil, flowing from south-west to north-east to join the great river. Some of the best cotton produced in the District is grown in Kamāsin. In 1903-4 less than half a square mile was irrigated, out of 205 square miles under cultivation. The Ken Canal, when completed, will serve a small area in the west of this tahsil.

Kamātāpur.—Ruined city in Cooch Behār State, Bengal, situated in 26° 23' N. and 89° 21' E. The city is reputed to have been founded by Rājā Nīladhwaj, the first of the Khen kings. Its ruins indicate that it must have been a very extensive place. Dr. Buchanan Hamilton in 1809 found that it occupied an area 19 miles in circumference, 5 of which were defended by the Dharlā, and the rest by a rampart and ditch. The city consisted of several enclosures, one within the other, the centre one being occupied by the king's palace. Kamātāpur was abandoned and fell into decay after the overthrow of Rājā Nīlāmbar by Alā-ud-dīn Husain, king of Bengal, towards the close of the fifteenth century. Kamātāpur figures conspicuously as Comotay in some of the earlier maps of India.

[Sir W. W. Hunter, Statistical Account of Bengal (1876), vol. x, pp. 362-70.]

Kambam. — Tāluk and town in Kurnool District, Madras. See Cumbum.

Kambar Tāluka.—Tūluka of Lārkāna District, Sind, Bombay, lying between 27° 19' and 27° 52' N. and 67° 14' and 68° 10' E., with an area of 627 square miles, of which about one-fifth is jāgīr land belonging to Ghaibi Khān Chandia. The population in 1901 was 88,527, compared with 79,019 in 1891. The tāluka contains one town, Kambar (population, 4,807), the head-quarters; and 92 villages. The density, 141 persons per square mile, slightly exceeds the District average. The land revenue and cesses in 1903 amounted to 3.6 lakhs. The tāluka depends upon the Ghar canal and its branches for cultivation. Rice of excellent quality is the principal crop; but owing to excessive irrigation the country is malarious. The same circumstance renders it one of the finest shooting grounds for wild fowl in Northern India.

Kambar Town.—Head-quarters of the *taluka* of the same name in Lārkāna District, Sind, Bombay, situated in 27° 36′ N. and 68° 3′ E., about 12 miles by road west by north from Lārkāna town, and a station on the North-Western Railway. Population (1901), 4,807. The municipality, established in 1862, had an average income during the decade ending 1901 of Rs. 12,300, derived mostly from town dues, cattle-pound fees, and fisheries. In 1903-4 the income was Rs. 17,000.

The town was plundered by the Baluchis in 1848, and almost destroyed by fire in the following year. It contains a dispensary, an Anglovernacular and a vernacular school, attended respectively by 46 and 93 pupils.

Kameri.—Village in the Vālva tāluka of Sātāra District, Bombay, situated in 17° N. and 74° 19' E. Population (1901), 5,052. The village, which lies on the main road to Kolhāpur, had formerly a large Muhammadan population. Old tombs and ruined mosques may still be seen, while within its limits is a tank designed to supply water to Islāmpur.

Kamilpur.—Cantonment and head-quarters of Attock District, Punjab. See CAMPBELLPORE.

Kamlagarh.—Ancient fortress in Mandī State, Punjab, situated in 31° 48′ N. and 76° 43′ E., near the south bank of the Beās. It consists of a line of detached bastions, castles, and towers, about 3 miles in length, constructed partly of masonry and partly of the natural sandstone rock. The principal stronghold crowns an isolated peak, whose precipitous sides tower 1,500 feet above the Beās, with double that elevation above sea-level. Kamlagarh played an important part in the earlier history of Mandī, and even Sansār Chand, Rājā of Kāngra, attacked the fortifications unsuccessfully. Their possession tempted the Mandī Rājā to revolt against the Sikhs; but General Ventura, the Sikh commander, succeeded in carrying them in 1840, in spite of the popular belief in their impregnability.

Kampil.—Village in the Kaimganj tahsīl of Farrukhābād District, United Provinces, situated in 27° 35′ N. and 79° 14′ E., 28 miles north-west of Fatehgath. Population (1901), 2,366. Kampil is mentioned in the Mahābhārata as the capital of South Panchāla, under king Drupada. Here his daughter, Draupadī, married the five Pāndava brethren. The villagers still show the mound where the Rājā's eastle stood, and the place, a few miles away, where the swayamwara, or ceremony at which Draupadī chose her husband, took place. At the end of the thirteenth century, Kampil appears as a nest of highway robbers, against whom the emperor Ghiyās-ud-dīn Balban marched a force in person, and built here a fort. The town and its vicinity constantly gave trouble in later years, but the Rāthor inhabitants were gradually suppressed. West of the town stretches a long series of ruins in which ancient coins are found. There are a fine Jain temple and a primary school with about 60 pupils.

Kampli. -Town in the Hospet tāluk of Bellary District, Madras, situated in 15° 25' N. and 76° 36' E., on the bank of the Tungabhadra. Population (1901), 9,803. Until 1851 it was the head-quarters of the Hospet (then called the Kampli) tāluk, but it is now declining in importance. The town has an ancient history, having been a Chālukyan

capital in the eleventh century; and its fort, which stands on the river bank at the end of a most picturesque reach, must have been of some strength. It is now being deserted in favour of the more healthy suburb known as the petta, which is farther from the river and raised above the irrigated land, and consequently less malarious. The only industry is the weaving of silk fabrics. It is doubtful whether even this is what it was a dozen years ago. The weavers are unprogressive, and most of them have fallen into the hands of the local capitalists, who advance materials and take the stuffs they weave, paying them only for their labour. The town is surrounded by irrigated land watered from channels from the Tungabhadra, and a good deal of coarse sugar is still made; but this does not command its former price, having been largely ousted by the superior article refined by European processes.

Kamptee (Kāmthi).—Town with cantonment in Nagpur District, Central Provinces, situated in 21° 13' N. and 70° 12' E., on the Bengal-Nagpur Railway, 10 miles from Nagpur city and 520 from Bombay. It stands on the right bank of the Kanhan river, and the cantonment extends in a long parrow line beside the river, with the native town to the south-east. The population at the four enumerations was as follows: (1872) 48.831; (1881) 50.987; (1891) 53.159; (1901) 48.888. The population in 1901 included 26,370 Hindus, 9,852 Muhammadans. and 1.851 Christians, of whom 1,036 were Europeans and Eurasians. Kamptee is the fourth town in the Province in respect of population. The ordinary garrison consists of a battalion of British infantry, one of Native infantry, and a field battery. Kamptee was until recently the head-quarters of the general commanding the Nagnur district: but this appointment has now been abolished, and the garrison is at present commanded from Ahmadnagar. The cantonment was established in 1821, and was made the head-quarters of the Subsidiary force maintained by the British under treaty with the Nagour Raia. The whole town is included in the cantonment. The receipts and expenditure of the cantonment fund during the last decade averaged 1-1 lakhs. In 1903-4 the receipts were Rs. 1.06.000 and the charges Rs. 1.18.000. During Maratha rule traders flocked to Kamptee on account of the comparative immunity from taxation which they enjoyed within the cantonment, and a large commercial town thus grew up alongside it. Owing to its favourable situation on the roads leading to Nagpur from the Satpura plateau, Kamptee for a long period monopolized the trade from this area; and it is only within comparatively recent years that the advantages possessed by Nagour. as the larger town and capital of the Province, have enabled it gradually to attract to itself the commercial business of Kamptee. To this transfer of trade are to be attributed the stationary or declining figures

of population during the last thirty years, and the construction of the Satpura railway may tend to accelerate the process. The town contains three cotton-ginning and two pressing factories with a total capital of 2-4 lakhs, three of which were opened in 1801 and 1802 and the others since 1000. Muhammadan hand-weavers produce the cheaper kinds of cloth. Weekly cattle and timber markets are held, and the town contains one printing press. The Cantonment Magistrate, who has also the powers of a Small Cause Court Judge, has jurisdiction over the cantonment. The educational institutions comprise a Government high school one English middle, two vernacular middle, and eleven primary schools. The Convent of St. Joseph maintains a boarding and day school for European children, teaching in some cases up to the matriculation standard, orphanages for native children. and a dispensary. Medical relief is afforded to the civil population at the Cantonment General Hospital and a branch dispensary in the town.

Kāmrūp.—District of Eastern Bengal and Assam, lying between 25° 43' and 26° 53' N. and 90° 39' and 92° 11' E., with an area of 3,858 square miles. It is bounded on the north by Bhutān; on the east by Darrang and Nowgong; on the south by the Khāsi Hills; and on the west by Goālpāra. The Brahmaputra flows through the

District, and divides it into two unequal portions, Physical about two-thirds of the total area being on the right aspects. or northern bank. South of the Brahmaputra the country is much broken by the outlying spurs of the Khāsi Hills which project into the valley, and low ranges of hills appear even on the north bank of the river. The scenery is thus pleasingly diversified, and the Gauhāti reach, enclosed in a circle of forest-clad hills, is extremely beautiful. The centre of the District is a broad plain, the greater part of which is covered with rice-fields, with dotted groves of bamboos concealing the villages of the Assamese; but farther north the land becomes too high for rice cultivation, and grassy uplands stretch to the foot of the outlying ranges of hills. The principal tributaries of the Brahmaputra are: on the north bank, the BARNADI. which once formed the boundary between Darrang and Kāmrūp; the Baralía; the Chaulkhoa, which empties itself into the Manas; and the MANAS, a large river which formerly marked the boundary of Goālpāra District. These rivers take their rise in the Himālayas, and the swiftness of their current frequently causes them to cut away their banks and change their courses. At the foot of the northern hills there is a tract of gravel and sand, in which many of the minor streams vanish, to appear again some distance farther off. On the south bank the only rivers of any importance are the DIGRU, the KULSI, and the Singra-All over the District are found numerous swamps, or bils, in many of which the water lies even during the dry season. The most extensive are the Dipār bīl, about 8 miles west of Gauhāti, the Bildārā bīl in the Palāsbāri tahsīl, and the Asuchi bīl in the Hājo tahsīl.

The plain is of alluvial formation, composed of sand and clay in varying proportions. South of the Brahmaputra low ranges of gneissic rock project from the Khāsi Hills, and outliers are found on the north bank of the river.

The base of the southern hills is forest-clad; but to the north the country is covered with short grass, and is destitute of trees. High reeds and jungle grass spring up in great luxuriance on all low-lying land, and the forest is rendered beautiful by great ferns and the graceful foliage of the creeping cane.

Elephants and bison are still found in the low hills, and rhinoceros and buffalo in the marshes; tigers, leopards, bears, hog, and several species of deer are not uncommon. In 1904, 12 men and 2,709 animals were killed by wild beasts, though rewards were paid for the destruction of 201 tigers and leopards. The principal kinds of small game are hares, partridges, wild duck and geese, florican, and snipe.

The climate of the District does not differ materially from that of the rest of the Assam Valley; between November and the middle of March it is cold and pleasant, but during the rest of the year warm and damp. The tarai at the foot of the Khāsi Hills is particularly unhealthy. The prevailing direction of the wind is from the northeast, and during the cold season fogs gather daily in the early morning over the valley of the Brahmaputra.

The annual rainfall at Gauhāti averages only 67 inches, but near the hills 80 or 85 inches are received. The rainfall, though invariably abundant, is sometimes unfavourably distributed, and the rice crop suffers from the premature cessation of the monsoon. The greatest natural calamity from which the District has suffered was the earthquake of June 12, 1897. The Government offices and nearly all masonry buildings in Gauhāti were wrecked, and roads and bridges were destroyed. The drainage of the District was obstructed, the levels appear to have been altered, and large tracts of fertile land were rendered unfit for cultivation. After the earthquake the floods of the Brahmaputra were of exceptional severity, and agriculture received a serious check.

The District originally formed part of the ancient Hindu kingdom of Kāmarūpa, which, according to the Jogini Tantra, included the whole of the Brahmaputra Valley, with Rangpur and Cooch Behār. One of the earliest kings, Bhagadatta, whose capital was situated at Prāgjyotishapura, the modern Gauhāti, is said to have fought on the losing side in the great war

VOL. XIV.

of the Mahabharata: but the history of the country up to a recent date is involved in great obscurity. In the sixteenth century Kamrup formed part of the territory of the Koch dynasty. The king. Nar Nārāvan, waged successful war against the Ahoms and the Rājās of Cāchār, Jaintiā, Sylhet, and Tippera; but the kingdom was divided. and the territory east of the Sankosh, which includes the present Kāmrūn, was allotted to Nar Nārāyan's nephew, Raghu Rai, while his son Lakshmi Nārāvan retained as much of the kingdom as lav west of that river. Disputes soon broke out between the two branches of the family, and the Muhammadans were called in on one side. the Ahoms on the other. The struggle between these powers continued for some years, but the Muhammadans at last succeeded in inflicting a decisive defeat upon their opponents, and occupied Gauhāti in 1637. This was not, however, the first occasion on which the Muhammadans had invaded Assam. At the beginning of the thirteenth century expeditions had been dispatched up the valley of the Brahmaputra; but the raiders, though for a time successful, were unable to retain their hold upon the country. Two of their leaders in the sixteenth century are still well remembered: Turbak, the remnants of whose army were finally converted into the degraded Muhammadan caste known as Moriās; and Kālā Pāhār, who is said to have partially destroyed the sacred temples at Kāmākhya and Hājo. The last and greatest invasion was that of Mir Jumla in 1660-2. general, though at first successful, was subsequently overcome by the difficulties of the climate and the country, and was compelled to retreat with the loss of all his guns. The Muhammadan frontier was then fixed at Goalpara, and Kamrup was absorbed into the Ahom kingdom. Gauhāti becoming first the head-quarters of the viceroy of Lower Assam. and at the end of the eighteenth century of the Rājā himself. By this time the power of the Ahom king had been completely undermined, and Captain Welsh was sent into the valley in 1792 to put a stop to the anarchy then prevailing. He was recalled two years later, and Assam again became a scene of internecine struggles, which culminated in the occupation of the Burmese, who ravaged the Province with fire and sword. In 1826, after the first Burmese War, Kämrüp, with the rest of the valley of the Brahmaputra, was ceded to the British. Duars at the foot of the Himālayas remained, however, in possession of the Bhotias till 1841. In that year they were annexed and compensation paid to the hillmen for their loss of territory. On the outbreak of the Bhutan War in 1864, Dewängiri was occupied by British troops, but they subsequently retired from the post with undue precipitation. The village was recaptured in April, 1865, and since that date has formed a part of British territory. The head-quarters of the Assam Division were originally fixed at Gauhāti; but in 1874, when Assam was separated from Bengal, Shillong was chosen as the seat of government.

Gauhāti contains numerous tanks and temples, and is surrounded by extensive earthworks, which bear witness to the importance of the kingdom of which it formed the capital. The remains of a large number of Hindu temples are scattered over the District, the most important being those at Kāmākhya just below Gauhāti, and at Hājo, about 15 miles by road north-west of that place.

The population of the District at the last four enumerations was: (1872) 561,681, (1881) 644,960, (1891) 634,249, and 1901 (589,187). The decrease in the last two decades is due to the ravages of a peculiarly malignant form of fever known as kalā azār, and to general unhealthiness; but it is believed that since 1899 the population has been again increasing. The District is divided into two subdivisions. GAUHĀTI and BARPETĀ, with head-quarters at the towns of the same name, and contains 1,716 villages. The following table gives the area, number of towns and villages, and population, according to the Census of 1001:

| Sabdivision. | Area in square miles. | Towns. | mber of | Population, | Population per square mile. | Percentage of variation in population between 1891 and 1901. | Number of persons able to read and write. |
|--------------------|--------------------------|--------|--------------|--------------------|--------------------------------|--|--|
| Barpetā Gauhāti | 1,274 2,584 | I | 600 1,116 | 115,935 473,252 | 183 | - 14·5 - 5·0 | 4,520 16,228 |
| District total | 3,858 | 2 | 1,716 | 589,187 | 153 | - 7-1 | 20,748 |

Hindus formed 69 per cent. of the population, and Muhammadans 9 per cent., while 21 per cent, were animistic tribesmen. How little the District has been affected by outside influences can be judged from the fact that 83 per cent. of the population in 1901 spoke Assamese and 11 per cent. Bodo or plains Kāchārī; while only 3 per cent. of the population enumerated there had been born outside its boundaries. Kāmrūp is further peculiar in that the women exceeded the men in numbers.

The principal Hindu caste is the Kalitā (115,600), a respectable caste supposed to be the descendants of Aryans who had immigrated to Assam before the functional division of caste was introduced into Bengal. The Koch, into whose ranks converted Kāchāris are received, are also numerous (93,800), and so are the Kewats (41,600). The Shāhās (14,100) are by tradition liquor-sellers, but have taken to agriculture, and have succeeded in obtaining a respectable position in Assamese society. The District contains many shrines, and Brāh-

mans (23,100) are found in much larger numbers than in the rest of the Assam Valley. The principal aboriginal tribes are the Kāchāris (92,100), and the Rabhās, who are closely akin to them (16,300), the Mikīrs (10,600), the Gāros, and the Lalungs. All of these tribes are members of the great Bodo race, which is supposed to have entered the valley from North-Western China many centuries ago. Agriculture supports 81 per cent. of the population, a lower proportion than in the other plains Districts of the Province. The number of priests, fishermen, and beggars is, however, unusually high, the strength of the last-named class giving some indication of the misfortunes which Kāmrūp has recently experienced. There is a branch of the American Baptist Mission at Gauhāti, and the great majority of the native Christians (1,379) in 1901 are members of the sect.

Broadly speaking, the District on either side of the Brahmaputra is divided into three belts of land with different characteristics. The

first is the chapari, or tract bordering on the river. Agriculture. which is subject to deep inundation during the rains. but dries rapidly at the approach of the cold season. The soil is usually a light loam, on which rank jungle springs up with great rapidity, but which yields, when cultivated, excellent crops of mustard and summer rice, though the latter is liable to be destroyed by an early rise of the river. Permanent villages are never found here, and the land is generally abandoned after it has been cultivated for two or three years. This riverain tract merges gradually into a broad plain. in which transplanted winter rice (sāli) is the staple crop; in the intermediate stage, where the water lies too deep to admit of transplantation, bao, a long-stemmed variety of winter rice, is sown broadcast. Lastly, the high land under the hills is well drained and free from risk either of flood or drought, as it can be irrigated from the hill streams. Here the staple crop is sāli, or transplanted āhu (kharma). which is reaped in November and yields a much larger out-turn than the same rice when sown broadcast. The soil of the District varies from pure sand to a stiff clay which is useless for any kind of crop. The most fertile variety is a deep soft loam, which is found in the lowest part of the rice basins. The crops depend, however, more on the water-supply than upon the intrinsic fertility of the soil, and in the central and submontane tract the supply of water is generally adequate. The chief danger to which agriculture is exposed is from floods, which have been especially severe since the drainage channels silted up at the time of the earthquake of 1807. Steps have, however, been taken by both Government and the villagers to re-excavate these channels.

The main agricultural statistics of the District are shown in the table on the next page, in square miles.

The staple food-crop is rice, which in 1903-4 covered 718 square

miles, or 76 per cent. of the total cropped area. Rather more than half of the rice crop was sāli, 31 per cent. was āhu, and 20 per cent. bao. Other important crops are mustard (95 square miles), pulse (35), and sugar-cane. Mustard and pulse are usually grown along the banks of the Brahmaputra, on land afterwards occupied by summer rice.

| Subdivi | ision. | Area sho | Forest area. | | |
|------------------------|--------|------------|--------------|-------------|-----|
| | | Settled, | Unsettled. | Cultivated. | |
| Barpetā . Gauhāti . | | 199 815 | 1,075 | 159 639 | 149 |
| | Total | 1,014 | 2,834 | 798 | 149 |

When Gauhāti was the head-quarters of the Commissioner of Assam, a considerable number of tea gardens were opened in the neighbourhood of the town. In many cases, however, the sites were badly chosen, and the tea was planted on steep and rocky hill-sides, where the rain washed all the fertility from the soil. The seed employed was inferior, the rainfall insufficient, and a large proportion of the gardens proved to be unable to compete with the more prosperous estates of Upper Assam. The result was that the area under tea fell from 6,302 acres in 1882 to 3,659 in 1904. In the latter year 19 gardens yielded 735,000 lb. of manufactured tea, and gave employment to 7 Europeans and 2,416 natives, most of whom had been brought from other parts of India.

The cultivation of jute on a commercial scale has recently been introduced, but the industry is still in its infancy; and, apart from this, nothing has been done to develop the staples of the District, or to break up the large area of unsettled waste land. On the contrary, the area settled at full rates decreased by 12 per cent. between 1891 and 1901, owing to the decline in population and the injury done by the earthquake. Since 1901 there has, however, been a satisfactory extension of cultivation. Agricultural loans were first made in 1902, and during the next three years about Rs. 49,000 was advanced.

The Assamese are utterly indifferent to all the laws of breeding and to the comfort of their animals, and the native cattle are in consequence poor undeveloped creatures. The indigenous buffaloes are, however, larger and stronger than those of Bengal. The ponies brought down from the hills by the Bhotiās are sturdy little animals, and the Bhutān cattle also are a fine breed, but cannot be obtained in large numbers.

The only irrigation works in the District are the small channels dug by the Kāchāri villagers in the submontane tracts, to bring the water of the hill streams to their fields. Some channels, though only a few feet wide, are several miles long, and are capable of irrigating 3,000 or 4,000 acres. They are constructed by the combined labour of the villagers without any intervention on the part of Government. Embankments for flood protection and drainage channels are, however, more necessary than irrigation works.

There were 30 forest Reserves in Kāmrūp in 1903-4, with a total area of 149 square miles. The principal Reserves are those at Pantan and Barduār (59 square miles), which are situated on the banks of the Kulsi river about 30 miles west of Gauhāti; and many of the other forests are small patches, only one or two square miles in area. By far the most important timber tree in Kāmrūp is sāl (Shorea robusta); but tita sapa (Michelia Champaca), ajhar (Lagerstroemia Flos Reginae), sam (Artocarpus Chaplasha), and gunserai (Cinnamomum glanduliferum) are also found. The area of 'unclassed' forests was 2,294 square miles, and, though only a small portion is actually covered with timber, the out-turn from these forests is larger than from the Reserves. There is a small plantation of teak and rubber-trees on the Kulsi near the Barduār forest.

No minerals are worked in Kamrup, but deposits of lime are said to exist at the foot of the Bhutan hills.

Manufactures, apart from tea, are unimportant. In each house there is a rough loom, on which the women of the family weave silk and cutton cloths. The silk cloths, which are usually

Trade and cotton cloths. The silk cloths, which are usually made from the thread of the eri worm (Attacus ricini), are often sold; the cotton cloth is reserved for home

use. Gold filigree-work is made at Barpetā; but, though there are a number of jewellers in the District, articles are made only to order. Brass and bell-metal utensils, iron hoes and choppers, and rough pottery are also manufactured, though not in large quantities. Canoes are hollowed out of the trunks of large trees, the people of Barpetā being specially proficient in the art. Mustard oil is prepared in the ordinary country mill, and at Gauhāti there are two steam-mills, where flour is ground, cotton ginned, and oil expressed.

The general trade of the District is almost entirely in the hands of Mārwāris from Rājputāna; but there are a certain number of Muhammadan shopkeepers, and at Barpetā the Assamese, whose wits have been unusually sharpened by their contest with nature in that inhospitable spot, are as keen traders as the Mārwāris themselves. The principal exports are mustard seed, tea, cotton, lac, timber, and silk cloths. The articles received in exchange are rice, cotton yarn and piece-goods, grain and pulse, kerosene and other oils, hardware, and salt. The chief centres of trade are Gauhāti, Barpetā, Soālkuchi, Palāsbāri, Rangiā, Nalbāri, Baramā, and Tāmulpur, while there are permanent shops at all the tahsīl head-quarters. Most of the internal trade is, however, transacted at the markets, of which a large

number are held in different parts of the District. In the interior, as well as at Gauhāti, the principal shopkeepers are Mārwāris, who sell piece-goods, salt, grain, and oil, and not infrequently opium, and buy silk cloths, rice, and mustard seed, for which they often make advances before the crop is cut. The bulk of the trade is with Bengal, and is carried by steamer, though when the rivers rise in the rains country boats penetrate into the interior. The only foreign trade is with Bhutān, whose subjects come down through the Dewāngiri, Subankhātā, and Kakilābāri Duārs to fairs held at Darrangā and Subankhātā, and starting from these centres travel about the country. The principal imports from Bhutān are rubber, ponies, and blankets; the exports are cotton and silk cloths.

The Assam-Bengal Railway runs for 33 miles through the District to the Nowgong boundary, connecting Gauhatt with Dibrugarh, and with Chittagong via the North Cachar hills. Through railway communication to Calcutta will be provided by a line now under construction, which will run from a point just opposite Gauhāti to Golakgani on the Dhubri extension of the Eastern Bengal State Railway. A daily service of passenger steamers and large cargo boats, owned by the India General Steam Navigation Company and the Rivers Steam Navigation Company, ply on the Brahmaputra, calling at Gauhāti, Soālkuchi, Palāsbāri, and Kholābānda. During the rains country boats come from Bengal, and proceed up the various rivers into the Two trunk roads pass through the District, along the north and south banks of the river. In 1903-4 there were 16 miles of metalled and 160 miles of unmetalled roads maintained from Provincial funds, and 371 miles of unmetalled roads under the local boards. Generally speaking, Kamrup is well supplied with means of communication. A steam ferry crosses the Brahmaputra at Gauhāti.

As in other parts of Assam, famine is unknown in Kāmrāp; but in 1901 the rice crop was the poorest that had been reaped for many years, and there was local scarcity which necessitated some assistance from Government.

For general administrative purposes, the District is divided into two subdivisions: GAUHĀTI, under the immediate charge of the Deputy-Commissioner; and BARPETĀ, usually entrusted to a native magistrate. The sanctioned District staff includes five Assistant Magistrates, a Forest officer, and an Engineer who is also in charge of the Khāsi and Jaintiā Hills, and whose head-quarters are at Shillong.

The Deputy-Commissioner has the powers of a Sub-Judge, and certain of the Assistant Magistrates exercise jurisdiction as Munsifs. Appeals, both civil and criminal, lie to the District and Sessions Judge of the Assam Valley, whose head-quarters are at Gauhāti, while the

High Court at Calcutta is the chief appellate authority. The Assamese are a quiet and peaceful people, and there is not much serious crime.

The land revenue system does not differ materially from that in force in Assam proper, described in the article on Assam. The settlement is evolvage, being made direct with the actual cultivators of the soil, and is liable to periodical revision. The District contains a large area of waste land, much of which is fit for permanent cultivation: and the settled area in 1903-4 was only 27 per cent, of the total area, including rivers, swamps, and hills. Mustard and summer rice are seldom grown on the same land for more than three years in succession, and the villagers are allowed to resign their holdings and take up new plots of land on giving notice to the revenue authorities. In 1004-4, 31,000 acres were resigned and 47,000 acres of new land taken up. Fresh leases are issued every year for this shifting cultivation, and a large staff of mandals is maintained to measure new land, test applications for relinquishment, and keep the record up to date. Kāmrūp, like the rest of Assam proper, was last settled in 1801, and the average assessment per settled acre assessed at full rates in 1003-4 was Rs. 2-7-2 (maximum Rs. 4-2-0, minimum Rs. 1-11-0). The District is now being resettled after a detailed examination, in which the different classes of land have been more carefully discuminated. In recent years the people have suffered severely from exceptional unhealthiness and from the earthquake of 1897, which altered the levels of the country, causing obstructions to drainage and deposits of sand. abatement of Rs. 60,000 has been made in the land revenue of the tracts most seriously affected. A special feature of the District is the large number of estates held revenue free (lakhirii) or at half-rates (nisfkhirāj). These cover respectively an area of 53 and 229 square miles, and represent grants made by the Ahom Raias, usually to priests or temples.

The following table shows collections of land revenue and total revenue in recent years, in thousands of rupees:

| | | 1880-L | 1890 1 | 1900-1. | 1903-4 |
|-------------------------------|---|--------|---------------|----------------|----------------|
| Land revenue Total revenue | : | 9,12 | 9,52 14,90 | 11,92 17,38 | 12,30 18,56 |

* Exclusive of forest receipts

Outside the municipalities of Gauhāti and Barpetā, the local affairs of each subdivision are managed by a board, presided over by the Deputy-Commissioner and the Subdivisional Officer respectively. The expenditure of these boards in 1903-4 amounted to about Rs. 1,43,000, nearly two-fifths of which was devoted to public works.

For the purposes of the prevention and detection of crime, the District

is divided into 17 investigating centres, and the civil police force consisted in 1904 of 46 officers and 282 men. There are no rural police, their duties being discharged by the village headmen. During the winter 2 officers and 31 men of the Gāro Hills military police battalion are stationed in Kāmrūp, to hold the two outposts of Subankhātā and Darrangā. A District jail is maintained at Gauhāti, and a magistrate's lock-up at Barpetā.

As regards education, Kāmrūp is fairly representative of Assam. The number of pupils under instruction in 1880-1, 1800-1, 1900-1. and 1002-4 was 6.261, 10.427, 12.346, and 12.051 respectively. Education has made considerable progress during the past thirty years, and nearly three scholars were under instruction in 1003-4 for every one in 1874-5. At the Census of 1901, 3.5 per cent, of the population (6.8 males and 0.2 females) were returned as literate. There were 285 primary, 15 secondary, and 5 special schools in 1901-4. The number of female scholars was 411. The enormous majority of the pupils under instruction are only in primary classes. and the number of girls who have advanced beyond that stage is extremely small. Of the male population of school-going age, 25 per cent, were in the primary stage of instruction, and of the female population of the same age less than one per cent. Among Muhammadans the percentage of the scholars of each sex to the male and female population of school-going age was 27 and 1 respectively. An Arts college is maintained by Government at Gauhāti. The total expenditure on education in 1003-4 was Rs. 1.17.000, of which Rs. 21.000 was derived from fees. About 20 per cent, of the direct expenditure was devoted to primary schools.

The District possesses 2 hospitals and 8 dispensaries, with accommodation for 33 in-patients. In 1904 the number of cases treated was 64,000, of whom 600 were in patients, and 1,100 operations were performed. The expenditure was Rs. 16,000, the greater part of which was met from Local and municipal funds.

In 1903-4, 39 per 1,000 of the population were successfully vaccinated, which was considerably below the proportion for the Province as a whole. Vaccination is compulsory only in Gauhāti town.

[Sir W. W. Hunter, A Statistical Account of Assam, vol. i (1879); E. A. Gait, 'The Koch Kings of Kāmarūpa,' Journal of the Asiatic Society of Bengal, vol. lxii, p. 4; H. C. Barnes, Assessment Reports, Bajāli, Bijni, Barbhag, Baska, Patidarang, Ramdia, and South Bank groups (1905); B. C. Allen, District Gazetteer of Kāmrup (1905).]

Kāmta-Rajaulā.—One of the Chaube Jāgīks in Central India, under the Political Agent in Baghelkhand, with an area of 13 square miles, and a population (1901) of 1,232. The chief is a Kāyasth by caste, the first grantee, Rao Gopāl Lāl, having been the family vakt!

of the Chaube family of Kālinjar. The grant was made in 1812, when the Chaube family received their shares. A sanad of adoption was granted in 1862. The present holder is Rao Rām Prasād, who succeeded in 1892. The jāgīr consists of 3 villages. Of the total area, 899 acres are cultivated, 126 being irrigable. The revenue is Rs. 2,500 a year. The chief place is Rajaulā, situated in 25° 11′ N. and 80° 51′ E., 8 miles south of Karwī station on the Jhānsi-Mānik-pur section of the Great Indian Peninsula Railway. Population (1901), 211.

Kamthi.—Town and cantonment in Nagpur District, Central Provinces. See KAMPIEE.

Kamudi.—Town in the Mudukulattūr tahsil of the Rāmnād estate, Madura District, Madras, situated in 9° 24' N. and 78° 23' E. The population (1901) is 6,854, of whom 1,000 are Musalmāns. It contains a large Siva temple, which has been the subject of a famous law-suit, the Shānāns, a caste of toddy-drawers and merchants, claiming the right to enter within its precincts and the majority of the rest of the Hindus opposing their claim. The town participated in the riots which were caused in 1899 by this and other pretensions of the Shānāns, and a small force of punitive police is now quartered on it. Brass and bell-metal vessels are manufactured here.

Kanaigiri.—Tāluk and town in Nellore District, Madras. See Kanagari.

Kanara, North. District in the Southern Division of Bombay, lying between 13° 53′ and 15° 32′ N. and 74° 4′ and 75° 5′ E., with an area of 3,045 square miles. It is bounded on the north by Belgaum District, on the east by Dhārwār District and the State of Mysore; on the south by South Kanara in Madras; on the west for about 76 miles by the Arabian Sea; and on the north-west by the territory of Goa. The District is not to be confounded with the District of South Kanara in Madras. North Kanara is the most southerly of the coast Districts of the Bombay Presidency.

The Western Ghâts, varying in height from 2,500 to 3,000 feet, run through the District from north to south, dividing it into

Physical aspects. two parts: namely, the uplands or Bālāghāt (area, 2,639 square miles), and the lowlands or Payanghāt (area, 1,306 square miles). The coast-line is broken only by the Kārwār headland in the north, and by the estuaries of four rivers and the mouths of many smaller streams, through which the salt water finds an entrance into numerous lagoons winding several miles inland. The shore, though generally sandy, is in some parts rocky. Fringing its margin, and behind the banks of the brushwood-bordered lagoons, rise groves of coco-nut palms; and inland from this line of palms stretches a narrow strip of level rice land. The whole

breadth of the lowlands, never more than 15 miles, is in some places not more than 5 miles. From this narrow belt rise a' few smooth flattopped hills, from 200 to 300 feet high; and at places it is crossed by lofty, rugged, densely-wooded spurs, which, starting from the main range of the Western Ghāts, maintain almost to the coast a height of not less than 1,000 feet. Among these hills lie well-tilled valleys of garden and rice land. The plateau of the Bālāghāt is irregular, varying from 1,500 to 2,000 feet in height. In some parts the country rises into well-wooded knolls, in others it is studded by small, isolated, steep hills. Except on the bank of streams and in the more open glades, the whole is one broad waste of woodland and forest. The open spaces are dotted over with hamlets or parcelled out into rice clearings.

Both on the coast, where the green curtain of the forest forms a pleasing background to the long stretches of white sand, on which the rollers break beneath tall palms or dense patches of casuarina, and above the *ghāts* in the vistas of giant hills covered with evergreen jungle, the scenery is of rare beauty. Owing to the absence of railway communication the greater part of the District is seldom visited, except by officials or sportsmen; but the traveller who strays into these unfrequented paths will find surroundings that compare favourably in picturesqueness with any of nature's handiwork.

Stretching across the watershed of the Western Ghāts, North Kanara contains two sets of rivers—one flowing west to the Arabian Sea, the other east towards the Bay of Bengal. Of the eastern streams, the Varadā, a tributary of the Tungabhadra, alone calls for mention. Of those that flow westwards, four are of some importance—the Kālīnadī in the north, the Gangāvali and Tadri in the centre, and the Sharāvatī in the south. The last of these, plunging over a cliff 825 feet in height, about 35 miles east of Honāvar, forms the famous Gersoppa Falls. Along the coast the quality of the water is good, and the supply throughout the year abundant.

The prevailing rocks are granite and trap, the former largely predominating. At the base of the granite hills a laterite formation is common. Along the coast from Kārwār to Honāvar the surface rock is almost entirely hard laterite, a stone admirably adapted for building purposes.

The humid climate and the high and equable temperature of North Kanara account for the predominance of heavy forest and the moisture-loving types of tropical vegetation. Teak prevails in loose lighter-coloured soils. Bamboos of several valuable kinds grow over the whole of the District. The chief liquor-yielding tree is the coco-nut, which is luxuriant in Kārwār, Kumta, Ankola, and Honāvar. Liquor is also manufactured from the baini (Caryota urens), which grows

profusely in the Ghāt forests. A detailed list of important trees, shrubs, and common herbs is given in Sir James Campbell's *Bombay Gazetteer*, vol xv. part i.

Kanara is almost the only part of the Bombay Presidency abounding in wild animals. Within the last thirty years elephants have been shot in the District, but they are now extinct. Tigers are numerous, though they have decreased considerably in recent years. Leopards are found in large numbers, and occasionally the black variety. In the western portion of the above-ghāt division, bison are common. Black bear, sambar, the ribbed-face and mouse deer are frequently met with; and at times the game are much harried by packs of wild dogs who pursue the deer relentlessly till they succumb from exhaustion. smaller forests chital (Cervus axis) are not uncommon. The absence of legal restriction on the number of deer shot has, however, led to such a reduction in their numbers that rules are now being brought into force to save them from extinction. Twenty years ago a herd of eighty chital was not unknown; it would be difficult nowadays to meet with eight together. Among game-birds are the peafowl, jungle-fowl, spur-fowl, partridge, snipe, quail, duck, widgeon, teal, the green and the imperial pigeon. Red squirrels are frequently seen. Snakes are numerous, including the hamadryad or king cobra, and the python.

The climate of different parts of Kanara varies greatly in salubrity. The coast portion, though moist, is healthy, but the forest tracts, especially the upland forests, are always malarious and at intervals are visited by especially fatal outbreaks. The most unhealthy time in the forests is the first two months of the rains and the four cold-season months. The valleys of the Kālinadi and of its feeders are tracts where fever has a specially bad name. In December, January, and February the uplands at night and early morning are often wrapped in mist. From May 20 the south-west wind freshens and blows all day, and throughout the hot season the greater portion of the District is rendered agreeable by the prevalence of cool breezes. The temperature falls to 50° in November and rises to 91° in May. In March and April severe thunderstorms serve to cool the atmosphere. The highest annual rainfall is in Bhatkal, 156 inches, while Mundgod records only 46. Of the two divisions of the District, the lowland or coast tract has a heavier rainfall than the upland. The annual rainfall at Kārwār averages 110 inches.

In the low-lying lands near the coast heavy rainfall and a stormy sea sometimes cause floods which damage the crops. In 1831 and again in 1848, owing to the tempestuous weather, the Honavar coast lands were flooded with salt water and the crops destroyed.

In the third century u.c. Asoka sent missionaries to Banavāsi in

Kanara. From numerous inscriptions the country appears to have been controlled successively by the Kadambas of Banavasi, the Rattas. the Western Chālukvas, and the Yādavas. It was . History. for long a stronghold of the Jain religion. the sixteenth century, when the Portuguese established themselves upon the coast. Kanara was subject to the Vijayanagar kings. It is said to have been extremely rich and prosperous, and for a long period firmly withstood the efforts of the Muhammadan Sultans of the Deccan to extend their conquests to the south. Eventually, after the crushing defeat at Tālikotā (1565) and the sack of the capital city of Vijayanagar, the local chiefs of Kanara assumed independence. The Musalmans then attacked the Portuguese settlements on the coast, but were unable to subdue them. The power of Bijāpur, however, was generally established over Kanara, and continued until the Marathas obtained an ascendancy about 1675; but with the advance of Aurangzeb the country passed under the Mughals after the fall of Bijapur in 1686, and the chiefs of Sonda and Bednur tendered their submission and tributes. Some time subsequent to 1700 the Marathas again held Kanara. In 1763 Haidar All captured Bednur and obtained an immense booty. Sonda and the sea-coast were also subdued by him, and this brought Haidar into collision with the Marathas: but he was able to maintain his conquests, and even to extend them as far north as the Kistna. War breaking out with the British, Tipū lost Honāvar in 1783. After the defeat and death of Tipu at Seringapatam, Sonda was annexed by the British in 1700. It included the Kanara country above the châts. which had been so desolated by war and pillage that there was little to govern except trees and wild beasts. This, with the coast tract taken from Haidar, was attached to the Madras Presidency in 1799, and placed in charge of Munro. It continued to form part of Madras until 1861. In that year, owing to its relations with Bombay and to the fact that the forests supplied the Bombay dockvard with timber for ship-building. North Kanara was transferred to the Presidency of Bombay.

The chief buildings of interest in the District are the Jain temples of Banavāsi, Gersoppa, and Bhatkal. The temple at Banavāsi, which is attributed to the legendary Jakhanāchārya, is of considerable dimensions. It is ornamented with sculptured figures and designs, and has a short Dravidian spire. A loose slab in the courtyard bears an inscription of the second century A.D. At Nagarbastikere near the modern Gersoppa several Jain temples mark the site of the old town. They are much damaged by time, but the images representing the twenty-third and twenty-fourth Tirthankars are still intact. They are finely modelled in black basalt. At Bhatkal fourteen Jain basās are

still preserved, dating from the reign of Channabhaira Devi in the fifteenth century. At the same place are three stone tombs of European merchants who were buried in the year 1637. The numerous Hindu temples at Gokarn are ascribed to the fifteenth century. That of Mahābaleshwar is the most imposing. Many Kanarese inscriptions have been found at Bhatkal, Gersoppa, and Banavāsi. At Ulvi in Supa there are a few Lingāyat caves and the well of the Lingāyat saint Basava.

The Census of 1872 showed a total population of 398,498, and in the next nine years the population increased to 421,932. By 1891

Population. it had further increased to 446,453. The Census of 1901 recorded a population of 454,490, or 115 persons per square mile, residing in 8 towns and 1,281 villages. The tāluka distribution was:—

| Tālnka | Area in square miles | Towns. | Villages, page | Population | Population per square mile. | Percentage of variation in population between 1891 and 1901. | Number of persons able to read and write |
|--|--|---|--|--|--|--|---|
| Haliyül " "upa petha Kārwār Yellāpur " Mundgod petha. Sirsi Kumta. Siddāpur Honāvar " Bhatkal petha. | 1,057 281 760 375 490 124 332 426 | 1 | 105 132 54 119 77 90 244 111 197 93 59 | 35,122 21,008 58,460 12,814 16,739 39,665 53,232 66,040 41,342 62,402 37,666 | 53 208 52 106 109 295 125 235 | + 13 - 35 + 10 - 2 + 06 + 7 - 1 + 5 - 3 + 5 + 10 | 1,498 959 6,254 1,590 845 2,357 6,341 7,700 3,428 5,227 1,877 38,076 |

The chief towns are the municipalities of KARWAR, the head-quarters of the District, KŪMTA, BHATKAL, HONÂVAR, and SIRSI. Owing to the large areas of forest the country above the ghāts is very sparsely populated, and in parts the population is decreasing. Much of the labour required to cultivate the upland tracts is therefore drawn from outside, the chief sources being Goa, Sāvantvādi State, and the Coondapoor tāluk of South Kanara. The language of the District is Kanarese, which is spoken by 57 per cent. of the total population. On the coast north of Gokarn and in the Supa petha, Konkanī replaces Kanarese as the common tongue.

Among the Brāhmans of Kanara (72,000) the most important are the Haviks (41,000), who are chiefly engaged in cultivation, being the owners of the areca-nut gardens of Sirsi and Siddāpur tālukas. They are reputed to have come originally from Southern India, and to have intermarried with the local cultivating caste of Gaudas. The second

Brāhman caste of importance is the Gaud Sāraswat (25,000), also known as Shenvi, with the two kindred sub-castes of Bardeskar and Kudaldeskar. The Gaud Sāraswats, who are very fair, claim a northern origin, and certainly came from Goa in the early part of the sixteenth century. They commonly eat fish, on which account other Brāhmans usually deny them the full status of their caste. Closely allied to the Gaud Sāraswats, and probably in former times one caste with them, are the Sāraswats (2,000), also known as Kushasthali or Shenvipaiki, many of whom have lately come from South Kanara. Between Sāraswats and Gaud Sāraswats there is chronic enmity. The establishments of the Government offices in the District are largely recruited from the former.

Apart from the Brahman castes, the special interest of the North Kanara population centres in the primitive classes, such as the Halvakki Vakkals (4.000), Gamvakkals (12.000), Halepaiks (52.000). Mukris (5,000), Kumārpaiks (0,000), and Harakantras (6,000), who have much in common with the population of Malabar and South Kanara, and but little affinity with the rest of the Bombay Presidency. Among these primitive people there exists to the present day an organization by balis or exogamous divisions strongly suggestive of totems. Thus, in the caste of a bali named after the sambar deer, the members may not harm the animal, and do not intermarry. Descent is traced through females. With the gradual Brahmanizing of these castes, such as the recent promotion of the Kumārpaiks to Kshattriva rank, it is to be expected that this organization by balis may in time disappear. It has survived long enough, however, to throw valuable light on the nature and origin of the Maratha devaks in the Deccan. The Marathas in North Kanara number 48,000, and are all cultivators, apparently a relic of the former Maratha dominion. Locally they are collectively described as Arer or Aryans. It is to be noted that the Gangāvali river is popularly considered the extreme southern limit of the Arvan race and languages in India. South of this river the dark complexion. coarse features. Dravidian speech, and primitive customs of the people seem to lend much support to the popular view. Muhammadans (29,000) are distributed as follows: Pathans, 3,000; Saiyids, 2,000; Shaikhs, 10,000. Besides the regular Muhammadan population (descendants of local converts to Islām), generally in poor circumstances, employed chiefly in agriculture and by Government as messengers and police, there are, in Kanara, two special bodies of foreign Muhammadan settlers. Of these, the more important and well-to-do are the Navayats or seamen, representatives of the colonies of Arab merchants, of whom a remnant still exists along the whole coast-line of the Bombay Presidency, from Gogha southwards. The other foreign Musalman community is the Sidis, descendants of African slaves formerly owned by the Portuguese. Although they have intermarried

for several generations with the low-caste population of the District, the Sidis have not lost their original peculiarities. They still possess the woolly hair and black skin of the pure negro. Some of them have been converted to Christianity, and some have become absorbed in the lower Hindu castes. They are for the most part very poor, and, settled in remote forests, live on the produce of little patches of rude cultivation.

The Christians in the District, who are almost all Roman Catholics. belong to two classes, the first of which consists of a few families from Goa, of Portuguese extraction, though much mixed by intermarriage with the natives of the country: the second are descendants of local converts to Christianity. Christians of the higher class are clerks, the rest principally artisans and labourers. The total number of native Christians in 1001 was 16.126, of whom 15.116 were Roman Catholics. The chief centres of Roman Catholic Christians are Honāvar, Kumta, and Kārwār. During their time of power and friendship with the Vijavanagar kings (1510-70), the Portuguese were probably allowed to make converts. But, as far as the record of treaties remains, it was during the early part of the eighteenth century, after the Mughals had withdrawn and when the Sonda chief in the north and the Bednur chiefs in the south were their close allies, that the Portuguese were most successful in spreading Christianity along the Kanara coast. When in 1784 Tipu succeeded in driving the British out of Kanara, he determined, on both political and religious grounds, to convert the native Christians of Kanara to Islam. After taking a secret census be dispatched troops who arrested 60,000, or, according to other accounts. 30,000 out of the 80,000 Christians found. The churches were dismantled and every trace of the Christian religion disappeared. Except infirm women and children, the prisoners were marched under a strong military escort to Seringapatam, then the capital of Mysore. The men were circumcised, the unmarried girls carried away as concubines, and many of the married women were badly treated. The change of climate from the coast to the Mysore uplands, harsh treatment, and the unhealthiness of some of the places to which they were sent, so broke the health of the converts that within a year 10,000 are said to have perished. A few Protestants are found in the towns of Karwar and Honavar. The only mission in the District is the Basel German Mission, with its head-quarters at Honavar. It was established in 1845 and supports five schools.

The cultivated portions of the lowlands are either sandy plains lying along the shore and the banks of rivers, or narrow well-watered valleys, which are for the most part planted with rice, coconut groves, and areca-nut gardens. In the uplands the soil is generally a stiff clay, retentive of moisture, Owing to the

want of inhabitants, and also to the malarious climate, many fertile and well-irrigated valleys lie waste and covered with forest; and difficulty is experienced in finding a sufficiency of labour for the lands already under cultivation.

The District is entirely *ryotwāri*. The chief statistics of cultivation in 1903-4 are shown below, in square miles:—

| Tälnka. | Total. | Cultivated. | Irrigated. | Cultivable waste, | Forest |
|------------|---------|-------------|------------|----------------------|--------|
| Haliyāl | 1,056 | 107 | 5 | 23 | 914 |
| Karwar | 281 | 50 | 3 | 14 | 215 |
| Yellapur | 760 | 71 | 2 | i mi l | 563 |
| Ankola | 375 | | 4 | 15 | 312 |
| Sirsi. , , | 491 | 42 85 | | | 380 |
| Kümta | 324 | 55 | 4 | 13 | 148 |
| Siddapur | 332 | 46 | -1 | 6 | 264 |
| Honavar, . | 426 | 73 | 12 | 22 | 325 |
| Total | * 3,945 | 528 | 30 | 219 | 3,121 |

[&]quot; These areas are based on the latest information.

Rice, of which there are many varieties, is the staple crop, the area in 1903-4 being 297 square miles. Jowar, chiefly grown in the Haliyal tāluka, occupied one square mile. Rāgi, occupying 8 square miles, is grown in the hills for the food of the poorer classes. Pulses occupied to square miles, the chief being mug, kulith, and udid, mostly grown in the coast tālukas. Sugar cane and safflower are also grown to a considerable extent; and coco-nuts, areca-nuts, the lesser cardamoms (Elettaria Cardamomum), and pepper are produced in gardens in large quantities for home consumption and for export. The cultivation of coffee has been tried but proved unprofitable. Rice and garden lands are irrigated, the water being obtained from perennial streams. Near villages, especially on the coast, there are groves and avenues of Alexandrian laurel, which attains a large size. East Indian arrowroot grows wild and is also cultivated in some parts. The coconut palm is common along the coast, and is the chief liquor-vielding tree in the District. The palms, grown solely for their nuts, are calculated to yield, on good coast garden land, a net yearly profit of about Rs. 50 per acre. The areca-nut gardens, which are situated in the upland valleys, are surrounded by strong fences, within which are planted rows of coco-nut, jack, and mango trees. The pan or betel-leaf vine (Piper Betle) is extensively grown; also the areca palm. The upland gardens further contain pepper, cardamoms, ginger, plantains; and sometimes pummelo, orange, lime, and iron-wood trees (nāg-chāmpa) are found in these higher tracts. Of vegetables, the bhendi is largely grown on the coast; and the egg-plant, the watermelon, and various pumpkin gourds and cucumbers are common.

Formerly, in the more open parts of the forest, nomadic cultivation by brushwood burning (kumri) was carried on, principally by tribes of Maratha extraction. The chief difficulty experienced in regard to cultivation in North Kanara since the practice of kumri was stopped is that known as the betta and soppu question. Betta is forest land assigned to the adjacent garden cultivation for the provision of sobbu or leaf manure, which is indispensable in the cultivation of betel. penper, and cardamoms. The improvident use of betta assignments. leading to the destruction of the forest on the land, results in a constant demand for further assignments, which cannot be continuously met unless the forest is to be entirely sacrificed to cultivation. Efforts are being made to come to a final settlement with each garden holder, by the allotment of an area of betta that is adequate for his requirements if treated with proper care. The salt marshes on the coast are offered for reclamation on very favourable terms. The cultivators have little recourse to advances under the Land Improvement and Agriculturists' Loans Acts. During the decade ending 1903-4 only 1.5 lakhs was advanced, of which Rs. 27,000 was lent in 1800-1000 and Rs. 67,000 during the last three years of the period.

The cattle are inferior everywhere, especially below the Ghāts. Kārwār, Kūmta, Ankola, and Honāvar contain few domestic animals of local breed. In Kārwār, Kumta, and Honāvar the Goanese and other Christians rear pigs. Fowls are kept by all classes except Brāhmans.

Of the total area of cultivated land, 30 square miles or 6 per cent. were irrigated in 1903-4. Canals and wells supply about 2 square miles each, tanks 4 square miles, and other sources 22 square miles. The Māvinkop tank supplies 579 acres in the Haliyāl tāluka, other special irrigation works are insignificant. In 1903-4 there were 18,205 wells and 5,534 tanks used for irrigation. Rice and garden crops are watered by runnels brought from streams or rivers. Near the coast in the dry season, dams of earth, stones, and tree branches are thrown across streams and the lands near are watered, the dam being removed at the close of the dry season or left to be swept away by the floods. Some places are watered by canals from ponds. Where the level of the water is below the field, if not very deep, it is raised in a basket hung on ropes and swung through the water by two men. If water has to be raised from a greater depth, the lever and bucket lift is worked by either one or two men; and, if the depth is still greater, it is drawn by the leathern bag worked by a pair of bullocks. When brought to the surface, the water is generally carried to the crop along the hollowed trunk of a palm-tree. The cost of constructing wells varies from Rs. 200 in sandy soil to Rs. 700 in the loam.

The forests of North Kanara are very extensive. Of the total area,

3,262 square miles are under forest, of which 548 square miles are 'protected.' The Forest department has charge of the whole area. The forests are divided into three sections: the table-land above the Ghāts, the main range, and the western spurs. The first of these contains splendid forests of teak, black-wood, and other trees 80 to 150 feet high, with fine clean stems 60 to 90 feet high and 5 to 12 feet in girth. The central belt has some of the finest forest of the District, including the magnificent teak tracts along the Kālīnadī, Bedti, and Gangāvali rivers. Bamboos of several valuable kinds grow over the whole of the District. The more important trees in the Kānara forests are khair, hedu, siras, dhaura, kāju, moha, phanas, undi, sisu, abnus, jāmbul, nandruk, bhirand, nan, mango, sandal-wood, tamarind, teak, and hirda.

The forest revenue in 1903-4 exceeded 9 lakhs, mainly derived from the value of the timber sold from the dépôts. The cultivators are allowed to gather dry wood for fuel and leaves for manure, and to cut bamboos and brushwood for their huts and cattle-sheds. They are also supplied, free of charge, with such timber as they require for their own use. In former years most of the produce of the Kanara forests went westwards to the sea-coast, finding its chief markets in Bombay and Gujarāt. Of late years the sea trade has fallen off, and the bulk of the timber is now taken eastward to the open country in and beyond Dhārwār.

Iron ore is found in different places in the main range and spurs of the Western Ghāts, and in the island of Basavrājdrug about half a mile off the coast of Haldipur and about 2 miles from the town of Honāvar. The building stone in general use below the Ghāts is ironclay or laterite, and sometimes granite or granitic schist and clay-slate. Above the Ghāts it is nearly always granite. In the same tract lime is usually made from limestone pebbles dug out of the banks of streams. On the coast, lime is prepared by burning cockle and oyster shells, which are abundant in most of the creeks and rivers, especially in the Kālinadī.

In Kūmta and Banavāsi there are skilled carvers of sandal-wood. A few hundred persons are employed in cutch-boiling. In the Ankola tāluka are 131 salt-works, of which 107 were working in 1903-4 and produced communications. 39,000 maunds of salt. With these exceptions North Kanara has no industries worthy of notice.

The ports of Bhatkal and Honāvar were known in the early centuries of the Christian era, and rose to importance in the fifteenth and sixteenth centuries as centres of the trade in horses from the Persian Gulf. At the present day the chief ports are Kārwār, Kūmta, Ankola,

¹ This figure is taken from the Forest Administration Report for 1903-4.

Honavar, and Bhatkal, with a total trade in 1903-4 of 61 lakhs: namely, imports 20 lakhs, and exports 41 lakhs. The principal articles of export are rice, timber, coco-nuts, and spices; imports are piece-goods, metals, sugar, and spirits. Cotton from Dharwar, formerly exported in large quantities from Kumta, now goes by rail direct to the port of shipment for Europe.

The Southern Mahratta Railway crosses the north-west angle of the District. North Kanara is traversed from north to south by two main roads, one above the Ghats and one along the coast, and by four main roads at right angles to them which climb the Ghāts and link up the principal coast towns with Belgaum, Dhārwār, and Mysore State. These roads run from Kadra to Belgaum via Supa, from Kärwär to Dhärwär via Yellanur, from Kumta to Dharwar via Sirsi, and from Honavar to Mysore territory via the Falls. In 1004 the District possessed 140 miles of metalled and 885 of unmetalled roads. All these, except 24 miles of metalled and 585 of unmetalled roads in charge of the local authorities, are maintained by the Public Works department. Avenues of trees are planted along 166 miles. There is steamer communication with Bombay during the fair season only, the steamers of the Bombay Steam Navigation Company calling at Karwar, Gokarn, Kumta, Honavar, and Bhatkal twice a week on their way to and from Mangalore.

North Kanara, with an assured rainfall, is practically exempt from famine. Bad seasons have been known, but the records point to the

Famine.

fact that local scarcity has only occurred owing to an influx of immigrants from the Decean and Ratnagiri, or to the depredations of dacoits causing hindrance to the arrival of supplies. The District suffered from these causes in 1806, when men were forced to feed on roots and rice husks, and about 3,000 persons are said to have died of want. In the famine of 1877 relief was necessary on a small scale.

The Collector is usually assisted by a member of the Indian Civil Service and a Deputy-Collector. The District comprises the eight Administration.

Talukas of Ankola, Honāvar, Kārwār, Kūmta, Siddāpur, Sirsi, Halivāl, and Yellāpur. The mahāls or pethas are Supa attached to Haliyāl, Mundgod to Yellāpur, and Bhatkal to Honāvar tāluka. There are three Forest officers.

There is a District and Sessions Judge at Kārwār and four Subordinate Judges. The District Judge acts as a court of appeal from the Subordinate Judges, of whom one decides all original suits without limit in value. Three of the Subordinate Judges exercise the powers of a Small Cause Court. There are twenty-five officers to administer criminal justice in the District. Crime is not of a serious nature below the Ghāts, save an occasional case of forgery; while above the Ghāts the most common offences are murder and dacoity, usually committed by persons coming from Dhārwār District.

The ancient Hindu revenue system involved theoretically the leve of a sixth part of the gross produce of the land as the share of the State: but in practice much more than a sixth was taken under various pretexts, either in kind or commuted into money. Probably in late years as much as one-third was exacted; but when Haidar All and Tipu held Kanara, the District was rack-rented to such a ruinous extent that population was diminished by a third, and only half the nominal revenue could be collected. When the District was taken over by the British, it was at first proposed to introduce a permanent settlement; but, in consideration of its desolate condition. large reductions of revenue were made as a temporary measure, and a permanent settlement postponed. Before many years the opinion was expressed that the Government demand was far too high and unequal in its incidence, and operated against the spread of cultivation; and after an unsuccessful attempt to fix the revenue upon an average of past receipts, a survey was begun in 1822. This was rather a rough inspection than an accurate survey, but it showed that the area under cultivation was larger than had been supposed. By fixing the assessments at about a third of the produce, the general rate of taxation was lowered; but the revenue was increased and paid without difficulty. Some progress was made with the survey on this principle, when it was discovered that, as the rate was the same on all lands, good or bad, the worst lands were being abandoned; and it was then decided to classify the lands according to their quality. In 1848 a minute was recorded by the Collector, demonstrating that it was not possible to assess the District satisfactorily without positive information as to the extent and capabilities of the land and the amount of Government as distinct from private lands, and pointing out that private owners were on all sides extending their boundaries at the expense of Government. Still it was considered that the expense of a survey could not be afforded, and nothing was done until the District was transferred from Madras to Bombay. On its transfer, a survey was introduced, the greatest difficulty being experienced in identifying boundaries of villages and fields. Between 1864 and 1867 a survey settlement was made in 199 villages above the Ghāts, the whole District being completed by 1801. As the settlement spread towards the coast, the landholders showed signs of opposition; for it was found that the old assessments were far short of even a moderate rent, and that the revenue would be doubled. They refused to pay the new rates, and appealed to the civil courts for redress, carrying their suits to the High Court, which finally upheld the right of Government to revise the assessments in Kanara, and since then opposition

has died out. The survey increased the land revenue by 13 per cent. in Honāvar, by 36 per cent. in Ankola and Kūmta, by 63 per cent. in Yellāpur, and by 115 per cent. in Kārwār. The revision survey of three tālukas was completed between 1895-1900, the assessment and area remaining unaffected. The total assessment on Government occupied land is now 10 lakhs. The average assessment per acre is: on 'dry' land 7 annas, on rice land Rs. 2-5, and on garden land Rs. 11-15.

Collections on account of land revenue and revenue from all sources have been, in thousands of rupces: --

| | | | | , | |
|------------------------------|------|---------------|---------------|---------|--------|
| 1 | | 1880-1. | т890-т. | 1900-i. | 1903-4 |
| Land revenue. Total revenue. | | 7,60 13,60 | 2,46 16,07 | 10,18 | 13,58 |

There are six municipalities in the District—KĀRWĀR, KŪMTA, SIRSI, HALIYĀI, HONĀVAR, and BHATKAL—besides two temporary municipalities at GOKARN and ULVI. Outside the limits of these, local affairs are managed by the District board and eight tāluka boards. The total income of these bodies in 1903-4 was Rs. 1,18,000, the principal source being the land cess. The expenditure was Rs. 1,38,000, including Rs. 58,000 expended on roads and buildings.

The District Superintendent of police is assisted by 2 inspectors. There are 14 police stations in the District; and the total strength of the police force is 646, including 12 chief constables, 138 head constables, and 496 constables. The District jail at Kārwār has accommodation for 252 prisoners. In addition, there are 10 subsidiary jails and one lock-up in the District, with accommodation for 180 prisoners. The daily average number of prisoners in 1904 was 189, of whom one was a female.

Compared with other Districts of the Presidency, Kanara stands fifth in point of literacy. In 1901, 8-4 per cent. of the population (15 males and 1-1 females) could read and write. Education has spread widely of late years. In 1865-6 there were only 16 schools, attended by 929 pupils. By 1880-1 the number of pupils had increased to 6,511, and by 1890-1 to 12,214. In 1903-4 there were 208 public and 26 private institutions, attended by 9,689 male and 2,062 female pupils. The public institutions include one high school, 10 middle, and 197 primary schools. Of these one is maintained by Government, 147 are managed by local boards, and 37 by municipalities, 19 are aided and 4 unaided. The total expenditure in 1903-4 was Rs. 82,500, of which Rs. 16,000 was derived from fees, and Rs. 17,000 from Local funds. Of the total, 66 per cent. was devoted to primary education.

There is a hospital at Kārwār, and 12 dispensaries, including a railway medical institution, are situated in the District, with accommodation for 85 in-patients. In these institutions 50,500 patients were treated in 1904, of whom 749 were in-patients, and 941 operations were performed. The total expenditure was Rs. 22,800, of which Rs. 10,060 was met from municipal and Local funds.

The number of persons successfully vaccinated in 1903-4 was 11,850, representing a proportion of 26 per 1,000, which slightly exceeds the average for the Presidency.

[Sir J. M. Campbell, Gazetteer of the Bombay Presidency, vol. xv (1883); Selections from the Records of the Bombay Government, No. CLXIII (1883).]

Kanara, South.—The more northerly of the two Districts on the west coast of the Madras Presidency, lying between 12° 7′ and 13° 59′ N. and 74° 34′ and 75° 45′ E., with an area of 4,021 square miles.

The vernacular name Kannada ('the black country') really refers to the black soil of the Kanarese-speaking country in the Southern Deccan. Though a historical misnomer as applied to the western seaboard, it yet marks its long subjection to the Kanarese princes who held sway over the Western Ghats. The District is bounded on the north by the Bombay Presidency; on the east by Mysore and Coorg; on the south by Coorg and Malabar; and on the west by the Arabian Sea. The scarp or watershed of Physical the Western Ghats forms a natural frontier on the ampects. east. Approaching in the extreme north within 6 miles of the sea, the main line of this range soon swerves abruptly eastward round the Kollūr valley. Through this passes a road leading to the Honnar Magane, a small tract above the Ghats belonging to South Kanara, but separated from it by Mysore territory. the valley rises the prominent sugar-loaf peak of Kodachādri, 4,411 feet; and thence, a precipitous cliff-like barrier with an average elevation of over 2,000 feet, the Ghats run south-east to the KUDREMUKH. the highest peak in the District, 6,215 feet above sea-level. this point they sweep east and south round the Uppinangadi tāluk to join the broken ranges of the Coorg and Malabar hills on the southern boundary of the District. South of the Kudremukh their To the north few passes or prominent character entirely changes. heights break the clearly defined watershed. On the south, deep valleys pierce the main line, flanked by massive heights such as Ballālrāyandurga (4,940 feet) and Subrahmanya hill (5,626), while a profusion of forest-clad spurs and parallel ranges makes the scenery as varied and picturesque as any in the Presidency. West of the Ghats a broken laterite plateau slopes gradually towards the sea. The general aspect of the District has been well described as a flatness uniform but infinitely diversified. Much of the level surface is bare and treeless, and strewn with denuded granite boulders; but numerous miniature hill ranges, well wooded save where stripped for firewood near the coast, and bold isolated crags rising abruptly from the plain, prevent monotony.

Local tradition states that South Kanara was part of the realm wrested by the mythic Parasu Rāma from the sea, and modern geology seems to confirm the view that it is an ancient sea-bed. Water is at any rate the element to which the District owes its distinctive characteristics. The monsoons have furrowed innumerable valleys in the laterite downs, and fertilized them with rich soil washed down by the streams. Valley opens upon valley in picturesque and diversified similarity, all converging at last into the main valleys through which the larger rivers of the District run. Along the backwater which these rivers form at the coast are found large level stretches of fertile rice and garden land. From the sea, indeed, the coast-line presents an endless stretch of coco-nut palms, broken only by some river mouth or fort-crowned promontory where the main level of the plateau runs sheer into the sea.

The rivers of the District, though numerous, are of no great length. Raging torrents in the monsoon, owing to the enormous volume of water they have to carry off, in the hot season they shrink to shallow channels in the centres of their beds. Rapid in their early course, they expand at the coast into shallow tidal lagoons. In the extreme south a number of rivers rising in the Malabar and Coorg hills form a succession of backwaters giving water communication with Malabar. At Kāsaragod the Chandragiri (Pavaswani) flows into the sea past an old fort of the same name. The Netravati, with its affluent the Kumāradbāri, and the Gurnur river, which have a common backwater and outlet at Mangalore, drain the greater part of the Mangalore and Uppinangadi tāluks. The Swarnanadī and the Sītānadī drain most of the Udipi tāluk and have a common outlet at the port of Hangarkatta. A picturesque and important backwater studded with fertile islands is formed to the north of Coondapoor town by a number of rivers draining much of the Coondapoor tāluk.

The geology of South Kanara has not yet been worked out. It is probable that in the main it consists of Archaean gneisses of the older sub-groups, possibly with representatives of the upper thinner-bedded more varied schists (Mercāra schists) and plutonic igneous rocks where the District touches Mysore and Coorg. Laterite and ordinary coastal alluvium are common in the low-lying parts.

As might be expected from the heavy rainfall (145 inches), the flora of the District is exceedingly varied. The forests are both evergreen and deciduous, and the more important timber trees are mentioned

under Forests below. Of fruit trees, the coco and areca palms and the jack and mango are the most important. There are, however, few good grafted mango-trees, except in Mangalore town. The palmyra palm is found everywhere, and the cashew-tree is very common, especially near the coast. The bamboo grows luxuriantly. Considerable stretches of sandy soil along the coast have been planted with the casuarina. The betel vine, yams of various kinds, and plantains are raised in gardens, and turmeric and chillies as occasional crops. Flowers of numberless kinds grow in profusion, and in the monsoon every hollow and wall sprouts with ferns and creepers.

The fauna is varied. Leopards are found wherever there is cover, and annually destroy large numbers of cattle. The tiger is less common. On the Ghāts bison (gaur) and sāmbar attract sportsmen, and the black bear is also found, while elephants are fairly numerous in the extensive forests of the Uppinangadi tāluk. Deer and monkeys do considerable damage to cultivation near the Ghāts. The jackal is ubiquitous. The handsome Malabar squirrel (Sciurus indicus) is common in the forests, and flying foxes have established several flourishing colonies. Among rarer animals are the flying squirrel, lemur, porcupine, and pangolin. Many species of snakes exist, and the python and the hamadryad (Ophiophagus elaps) grow to an immense size. Crocodiles and otters are found in the larger streams. There is good fishing in the rivers, mahseer being numerous; but dynamiting, poisoning, and netting by the natives have done much to spoil it.

The climate is characterized by excessive humidity, and is relaxing and debilitating to Europeans and people of sedentary habits. The annual temperature at Mangalore averages 81°. The heat is greatest in the inland parts of the District during the months of March, April, and May. Malarial fever is rife during the hot season and the breaks in the monsoon wherever there is thick jungle. From November to March a chilly land wind blows at night which, though it keeps the temperature low, is unhealthy and reputed especially dangerous to horses.

The annual rainfall averages 145 inches. It is smallest on the coast line, ranging from 127 inches at Hosdrug in the south to 141 inches at Coondapoor in the north. The farther inland one goes the greater is the amount, Kārkala close to the Ghāts having an average of 189 inches. In 1897 the enormous fall of 239 inches was recorded at this station. Of the total amount, more than 80 per cent. is received during the four months from June to September in the south-west monsoon. The rains may be said never to fail, and the District has only once known famine. Floods, however, are rare, as the rivers have usually cut themselves very deep channels.

Little is known of the early history of South Kanara. Inscriptions show that it was included in the kingdom of the Pallavas of Kanchi,

the modern Conjeeveram in Chingleput District. History. whose earliest capital appears to have been Vātāpi or Bādāmi, in the Rijānur District of Bombay. Its next rulers seem to have been the early Kadamba kings of Banavasi, the Banaousir of the Greek geographer Ptolemy (second century A.D.), in North Kanara District. About the sixth century they were overthrown by the early Chālukvas, who had established themselves at Bādāmi, the old Pallava capital. In the middle of the eighth century these were expelled by the later Kadamba king Mayūrayarma, who is said to have introduced Brahmans for the first time into the District. His successors seem to have ruled the country as feudatories of the Rashtrakūtas of Mālkhed in the present Nizām's Dominions, and of the Western Chālukyas of Kalvāni in the same State. About the twelfth century the District was overrun by the Hoysala Ballalas of Dorasamudra, the modern Halebid in Mysore. But there were frequent contests between them and the Vādavas of Deogiri, the modern Daulatābād in the Nizām's Dominions, until in the fourteenth century they were both overthrown by the Delhi Muhammadans, practically securing the independence of the local chiefs. In the first half of the fourteenth century the District passed under the Hindu kings of Vijayanagar. About this time Ibn Batūta, the Muhammadan traveller, passed through it, and has left an interesting, though somewhat exaggerated, description of what he saw, During the next century the Portuguese made their first settlements on the west coast, and Vasco da Gama himself landed in 1498 on one of the islands off Udipi. After the battle of Tālikotā in 1565, in which the last Vijavanagar king was defeated by the united Muhammadans of the Deccan, the local Jain chiefs achieved independence. But in the beginning of the next century almost all of them were subdued by the Lingayat ruler, Venkatappa Naik, of Ikkeri, now a village in the Shimoga District of Mysore. During the next century and a half the Ikkeri chieftains, who had meanwhile removed their capital to Rednür, the present Nagar in Mysore, continued masters of the country, though most of the old Jain and Brāhman chiefs seem to have retained local independence.

British connexion with the District begins about 1737, when the factors at Tellicherry, taking advantage of a hostile move by the Bednür Rājā, obtained commercial advantages, including a monopoly of all pepper and cardamoms in certain tracts. Haidar Alī, the Muhammadan usurper of the Mysore throne, after his conquest of Bednür in 1763 took Mangalore and made it the base of his naval operations. The place was captured by the English in 1768, but, on Haidar's approach a few months later, was evacuated. On the out-

break of war with Haidar again in 1780. General Mathews. Commander-in-Chief of Bombay, landed opposite Coondapoor and took it. On his subsequent march north to Rednür, he also took Hosangadi and the Haidargarh fort. Bednur itself next fell, but the arrival of a large relieving force under Tipu. Haidar's son, forced Mathews to capitulate. Tipu then besieged Mangalore, which surrendered after a protracted struggle. During this war, Tipu, suspecting that the native Christians of the District were secretly aiding the English. deported large numbers of them to Mysore and forcibly converted them to Islam. During the final war with Tipu, which ended in his death at the fall of Seringapatam in 1799, the District suffered severely from the depredations of the Coorgs. By the Partition Treaty of the same year it fell to the British. To the country thus acquired was added in 1844, on the annexation of Coorg, the portion of that province which had been ceded to the Coorg Rājā in 1700. In 1862 the country north of the Coondapoor taluk was transferred to the Bombay Presidency, leaving the District as it now stands to the administration of Madras.

The chief objects of archaeological interest in South Kanara are its Jain remains, which are among the most remarkable in the Presidency. The most noteworthy are found at KARKALA, MUDBIDRI, and YENUR. in a part of the District long ruled by Jain chiefs, of whom the most important were the Bhairarasa Wodeyars of Kārkala, Under this family, which migrated from above the Ghāts, building in stone is supposed to have been introduced into this part of the west coast. Fergusson states that the architecture of the Iain temples has no resemblance to the Dravidian or other South Indian styles, but finds its nearest affinity in Nepāl and Tibet. There is no doubt that it is largely a reproduction of the architectural forms in wood used in the country from early times. The remains are of three kinds. The first are the bettas, or walled enclosures containing colossal statues. is one of these statues at Kārkala and another at Yenur. The former is the larger, being 41 feet 5 inches high, and is also the more striking. as it stands on the top of a rocky hill overlooking a picturesque lake. They both have the traditional forms and lineaments of Buddha, but are named after Gomata Raya, a forgotten and perhaps mythical Jain king. They are monolithic; and the method of their construction, whether they were hewn out of some boulder which stood on their sites, or whether they were sculptured elsewhere and removed to their present positions, is a mystery. A still larger statue, also said to be of Gomata Rāya, at Srāyana Belgola in Mysore is the only other example known. An inscription on the Kārkala statue states that it was erected in A.D. 1431. The second class of Jain remains are the basts or temples. These are found all over the District, the most famous group being

at Mudbidri, where there are eighteen of them. With plain but dignified exteriors, clearly showing their adaptation from styles suited to work in wood, and greatly resembling the architecture common in Nepāl in the reverse slope of the eaves above the veranda, nothing can exceed the richness and variety with which the interior is carved. The largest back at Mudhidri is three-storeved, resembling somewhat the pagodas of the Farther East, and contains about 1,000 pillars, those of the interior being all carved in the most varied and exuberant manner. The last variety of Jain antiquities are the stambhas or pillars. Though not peculiar to Jain architecture, the most graceful examples are found in connexion with the temples of that faith. The finest is at Haleangadi near Kārkala. It is so feet from base to capital, the shaft being monolithic and 33 feet in length, and the whole gracefully proportioned and beautifully adorned. BARKUR, once the Jain capital of the region destroyed by Lingavat fanatics in the seventeenth century. probably excelled the rest of the District in the number and beauty of its huildings; but these are now a mere heap of ruins.

Serpent stones in groves and on platforms round the sacred figtrees are numerous, bearing witness to the tree and serpent worship imposed by the influence of Jainism and Vaishnavism on the primitive demon and ancestor worship of the country. The Hindu temples are as a rule mean and unpretentious buildings, though many of them, such as that to Krishna at UDIPI and the shrines at Subrahmanya, Kollūr, Sankaranārāyana, and Koteshwar, are of great antiquity and sanctity. Forts are numerous, especially along the sea-coast, but of little importance archaeologically. That at Bekal is the largest, and was formerly a stronghold of the Bednür kings.

South Kanara is divided into the five tāluks of Coondapoor, Kāsaragod, Mangalore, Udipi, and Uppinangadi, and includes also the

Population. Amindīvi Islands in the Indian Ocean. The head-quarters of the tāluks (except of Uppinangadi, which is at Puttūn) are at the places from which they are respectively named. The headman of the Amindīvis lives on the Amini island. Statistics of these areas, according to the Census of 1901, are shown in the table on the next page.

Much of South Kanara is hill and forest; and the density of the population is accordingly little above the average for the Presidency as a whole, fertile and free from famine though the District is. In the Uppinangadi tāluk, which lies close under the Ghāts, there are only 147 persons to the square mile. This is, however, on the main road to Mysore and Coorg, and the opportunities for trade thus afforded have caused the population here to increase faster than in the District as a whole.

The population of South Kanara in 1871 was 918,362; in 1881,

959,514; in 1891, 1,056,081; and in 1901, 1,134,713. It will be seen that the growth, though steady, is not remarkable. In the decade ending root the rate of increase was about equal to the average for the Presidency, and during the last thirty years it has amounted to 24 per cent. There is considerable temporary emigration of labourers every year to the coffee estates of Coorg and Mysore, the total loss to the District in 1001 on the movement between it and these two areas being 14.000 and 40,000 persons respectively. On the other hand, South Kanara obtains very few immigrants from elsewhere. In 1901 less than 2 persons in every 100 found within it had been born outside. As in the case of Malabar, this is largely due to its geographical isolation, and to the fact that the ways and customs of its people and its agricultural tenures differ much from those of neighbouring areas. The people are fonder of living in their own separate homesteads than in streets, and the District consequently has a smaller urban population than any other except Kurnool and the Nilgiris, and includes only two towns. are the municipality of MANGALORE (population, 44,108), the District head-quarters, and the town of UDIPI (8,041). Both are growing places. There are few villages of the kind usual on the east coast, the people living in scattered habitations.

| 7 diuk | Arra in square miles | Lowns. | nher of | Population. | Population per square mile. | Percentage of variation in population between 1891 and 1901. | Number of persons able to read and write |
|------------------|--|------------|-------------------------------|--|--|--|--|
| Coondapooi Udipi | 619 719 679 3 1,239 762 | I I | 103 157 243 4 182 | 131,858 251,831 334,294 3,668 181,842 231,280 | 213 350 492 1,203 147 304 | + 0.2 - 3.9 + 10.5 - 3.1 + 9.9 + 10.0 | 7,748 15,496 22,023 38 7,818 13,067 |
| District total | 4,021 | | 803 | 1,134,713 | 262 | + 7:4 | 66,190 |

Of the total population in 1901 Hindus numbered 914,163, or 81 per cent.; Musalmāns, 126,853, or 11 per cent.; Christians, 84,103, or 7 per cent.; and Jains, 9,582, or 1 per cent. Musalmāns are proportionately more numerous than in any Districts except Malabar, Madras City, and Kurnool; and most of them are Māppillas, who are described in the article on Malabar. Excluding the exceptional cases of Madras City and the Nīlgiris, Christians form a higher percentage of the people than in any District except Tinnevelly. They have increased at the rate of 45 per cent. during the last twenty years. Jains are more numerous than in any other District of Madras.

South Kanara is a polyglot District. Tulu, Malayālam, Kanarese, and Konkanī are all largely spoken, being the vernaculars respectively

of 44, 19, 19, and 13 per cent of the population. Tulu is the language of the centre of the District, and is used more than any other tongue in the Mangalore, Udipi, and Uppinangadi tāluks; but in Mangalore a fifth of the people speak Konkanī, a dialect of Marāthī, and in Udipi nearly a fourth speak Kanarese. In the Amindīvi Islands and in Kāsaragod, which latter adjoins Malabar, Malayālam is the prevailing vernacular. Most of those who are literate are literate in Kanarese. It is the official language of the District, and its rival, Tulu, has no written character, though it has occasionally been printed in Kanarese type.

The District contains proportionately more Brāhmans than any other in Madras, the caste numbering 170,000, or 12 per cent. of the Hindu population. The Hindus are made up of many elements, and the castes are in need of more careful study than they have yet received. They include 16,000 Telugus (0,000 of whom are Devānga or Sāle weavers); 82,000 members of Malayālam castes (most of whom are found in the Kāsaragod tāluk); 140,000 people of Marāthī or Konkanīspeaking communities; and 672,000 who talk Kanarese or Tulu. The three largest castes in the District are the Billavas (143,000), the Bants (118,000), and the Holeyas (118,000). The first two of these hardly occur elsewhere. They are respectively the toddy-drawers and the landholders of the community. The Holeyas are nearly all agricultural labourers by occupation.

Except the three Agencies in the north of the Presidency and South Arcot, South Kanara is more exclusively agricultural than any other District. As many as three-fourths of its people live by the land. Toddy-drawers are also proportionately more numerous than usual, though it must be remembered that many toddy-drawers by caste are agriculturists or field-labourers by occupation, while weavers and leather-workers form a smaller percentage of the people than is normally the case.

Out of the 84,103 Christians in the District in 1901, 83,779 were natives, more than 76,000 being Roman Catholics. Tradition avers that St. Thomas the Apostle visited the west coast in the first century. The present Roman Catholic community dates from the conquest of Mangalore by the Portuguese in 1526. Refugees from the Goanese territory driven out by Marāthā incursions, and settlers encouraged by the Bednür kings, swelled the results of local conversion, so that by Tipū's time the native Christian community was estimated at 80,000 souls. But after the siege of Mangalore in 1784 Tipū deported great numbers of them, estimated at from 30,000 to 60,000, to Seringapatam, seized their property, and destroyed their churches. Many of them perished on the road and others were forcibly converted. On the fall of Seringapatam the survivors returned, and the community

was soon again in a prosperous condition. The jurisdiction of Goa continued until 1837, when part of the community placed themselves under the Carmelite Vicar Apostolic of Verapoli in Travancore. After further vicissitudes the Jesuits took the place of the Carmelites in 1878. Mangalore is now the seat of a Roman Catholic bishopric.

The only Protestant mission is the German Evangelical Mission of Basel, established at Mangalore in 1834. Its converts now number 5,913, mainly drawn from the poorest classes of the people, who find employment in the various industrial enterprises of the mission.

The agricultural methods of South Kanara are conditioned by its climate and geological peculiarities. As already mentioned, the District is a laterite plateau on a granite bed, bounded by the Ghāts, and worn and furrowed into countless valleys by the action of the monsoons. Much of the level plateau above the valleys produces nothing but thatching-grass or stunted scrub; but the numerous hollows are the scene of rich and varied cultivation, and the slopes above the fields are well wooded save where denuded to supply the fuel markets of Mangalore and other large towns.

The soil is as a rule a laterite loam, which is especially rich in the lower stretches of the valleys, where the best rice land is found. Large stretches of level ground occur along the coast, where the soil is generally of a sandy character but contains much fertilizing alluvial matter. To the north of the Chandragiri river this land grows excellent rice crops and bears a very heavy rent. South of that stream the soil is thinner and suited only to the commoner kinds of rice; but tobacco and vegetables are grown in considerable quantities, especially by the Māppillas.

Every valley has one or more water channels running through its centre or down either side. The best rice-fields lie as a rule on a level with these channels, which feed them during the whole of the first-crop season by small openings in their embankments that can be shut or opened as needed. After the first crop of rice has been harvested. dams are thrown across these channels at intervals; and by this means the level of the water is maintained, and a second, and even a third, crop of rice can be grown by direct flow from the channel, water being let into the plots as required. Very often a permanent dam is maintained above the cultivation, to divert part of the water down the side channels. In the land immediately above these side channels a second crop of rice is grown by bailing either with picottahs, or, when the level admits, with hand-scoops (kaidambe) suspended from a cross-bar, or with a basket swung with ropes by two men. These lands are locally termed majal. Still higher up the slopes of the valley are other rice-fields, known as bettu, cut laboriously in terraces out of the hill-sides. These give only one crop of rice and, except where fed by some small jungle stream, are entirely dependent on the rainfall; consequently their cultivation is somewhat precarious. The areca gardens are mostly situated in the sheltered nooks of the valleys in the more hilly parts of the District and in the recesses of the lower spurs and offshoots of the Ghāts, where the two essentials of shade and a perennial water-supply occur in combination. The finest coco-nut gardens are found in the sandy level stretches adjoining the coast, especially along the fringes of the numerous backwaters.

A considerable quantity of black gram, horse-gram, and green gram is grown on the level land near the coast as a second crop, and on majal lands elsewhere if sufficient moisture is available. Sugar-cane is grown here and there beside the backwaters. Pepper has never recovered from the measures taken by Tipū to suppress its cultivation. In the south of the Kāsaragod tāluk, kumri, or shifting cultivation, is still carned on in the jungles.

The District is essentially *ryotwāri*, such *ināms* as exist being merely assignments of land revenue. Statistics of the various *tāluks* for 1903-4 are appended, areas being in square miles:—

| Tāluk. |] | Area shown in accounts. | Forest. | Cultivable waste. | Cultivated. |
|--|-------|-----------------------------------|-------------------------------|-----------------------------|---------------------------------|
| Coondapoor Udipi Mangalore Uppinangadi Käsaragod | | 619 719 679 1,239 762 | 241 159 60 547 63 | 35 60 122 91 61 | 122 134 195 162 377 |
| | Total | 4,018 | 1.070 | 369 | 990 |

More than a fourth of the District consists of forest, nearly one-half is hilly and rocky land not available for cultivation, and the area actually cropped is less than a fifth of the total. Rice is by far the most important staple, the area under it (counting twice over that cropped twice) being 760 square miles. The garden area, 82 square miles, consists almost entirely of coco-nut and areca-nut plantations. These three crops practically monopolize the cultivation.

For agricultural purposes the ryots divide the year into three seasons, to correspond with the times of the three rice crops. These are Kartika or Yenel (May-October), Suggi (October-January), and Kolake (January-April). It is doubtful if any District in the Presidency shows such a round of orderly and careful cultivation, and the increased out-turn from any theoretical improvements that might be made would probably be more than counterbalanced by the enhanced cost of cultivation. The choice and rotation of crops, the properties of various soils, the selection of seed and of seed-beds, the number of ploughings, the amount of manure, the distribution of water, the

regulation of all these, and the countless other details of high farming, if based on no book knowledge, have been minutely adapted by centuries of experience and tradition to every variety of holding.

In the jungles which almost everywhere adjoin the cultivation the ryot finds an unfailing supply of manure for his fields, of timber for his agricultural implements, which he fashions at little expense to himself, and of fuel for domestic use. Consequently he has availed himself but little of the Land Improvements Loans Act. Under the name of kumaki, holders of kadim wargs, or holdings formed before 1866, enjoy these privileges to the exclusion of others within 100 yards of the cultivation. No figures are available to show the extension of The absence of a survey, the connivence of the village and subordinate revenue officials, and the nature of the country have made encroachments particularly easy; and land has been formally applied for only where the prior right to it has been disputed, or to serve as a nucleus for future encroachment. Cultivation has increased steadily everywhere except immediately under the Ghats, where the miseries and depopulation caused by the disturbances of the eighteenth century threw out of cultivation large tracts which have never recovered, owing to the prevalence of malaria and the demand for labour elsewhere.

The chief drawback to agriculture in South Kanara is the want of a good indigenous breed of cattle. All the best draught and plough cattle have to be imported from Mysore, and even where well tended they are apt to deteriorate. The ordinary village cattle, owing to exposure to the heavy rains, indiscriminate breeding, bad housing, and a régime of six months' plenty and six months' want, are miserably undersized and weakly. The climate is equally unfavourable to sheep and horses, the number of which is small and kept up only by importation. A fair is held annually at Subrahmanya, to which about 50,000 head of cattle are brought from Mysore to meet local requirements.

The heavy rainfall and the rapid nature of the rivers do not admit of large irrigation reservoirs or permanent dams being formed, and as a result there are no Government irrigation works in the District. But the ryots have themselves most skilfully utilized the springs and streams by countless channels, feeders, and temporary dams. Along the coast, cultivation is largely assisted by shallow ponds scooped at little expense out of the sandy soil, and farther inland reservoirs of a more substantial nature are sometimes constructed at the valley heads. Many areca gardens are so supplied.

South Kanara is essentially a forest District. With the exception of the bare laterite plateaux and downs of the Kāsaragod and Mangalore tāluks, and the spots where the hills near the coast have been stripped of their growth for timber, fuel, and manure, the country is everywhere richly wooded. The whole VOL. XIV.

line of the Ghāts with their spurs and offshoots presents an almost unbroken stretch of virgin forest, which finds its richest and most luxuriant development in the recesses of the Uppinangadi tāluk, where the most important and largest Reserves are found. The total forest area in the District is 662 square miles, and 408 square miles of reserved' land are also controlled by the Forest department. In the early years of British administration the claims of Government to the forests and their prospective importance were alike overlooked; but the rights of the Crown began to be asserted from the year 1839 onwards, and during the last thirty years Reserves have been selected and a system of conservation introduced.

The destructive system of shifting cultivation, locally known as *kumri*, has been prohibited since 1860, except in a few small tracts where it is strictly regulated. Such regulation is a matter of the greatest importance to a District with an annual rainfall averaging over 140 inches, the seasonable distribution of which depends largely on the proper protection of its catchment area.

The most valuable timber trees are teak, poonspar (Calophyllum elatum), black-wood (Dalbergia latifolia), jack (Artocarpus integrifolia) and wild jack (A. hirsuta), ventek (Lagerstroemia microcarpa), kirālbhog (Hopea parviflora), banapu (Terminalia tomentosa), and marva (T. paniculata). But development must still be said to be in its infancy. In fact, the chief revenue is at present derived from items of minor produce, such as catechu, grazing fees, &c. The main obstacle is the want of good communications; but once this is overcome, whether by a system of light railways or otherwise, the South Kanara forests should be of the greatest value.

A fine clay excellently adapted for pottery is found in several localities, especially along the banks of the Netrāvati, which supplies material for the Mangalore tile-works mentioned below. Gold and garnets are known to occur in one or two places, but the mineral resources of the District are as yet practically unexplored. The ordinary laterite rock, which is easily cut and hardens on exposure, forms the common building material.

The only large manufactures in South Kanara are the results of European enterprise. Tile-making was introduced by the Basel

Mission, and this body has now two factories at Mangalore and another at Malpe near Udipi. At Mangalore one other European firm and nine native merchants are engaged in the industry, and elsewhere in the District are two more native factories. The industry employs altogether about 1,000 hands. The Basel Mission has also a large weaving establishment at Mangalore, and some of its employés have started small concerns elsewhere; but otherwise the weaving of the

District is of the ordinary kind. The same may be said with reference to the work of the goldsmiths, blacksmiths, and other artisans. Four European and three native firms are engaged in coffee-curing. In 1903-4 coffee from above the Ghāts to the value of 41 lakhs was exported. Coir yarn is manufactured in considerable quantities in the Amindīvi Islands, where it forms a Government monopoly, and along the coast. On the coast, too, a considerable industry exists in fish-curing, which is done with duty-free salt in fourteen Government curing-yards. Most of the product is exported to Colombo, but large quantities are also sent inland. Sandal oil is distilled in the Udipi tāluk from sandal-wood brought down from Mysore.

The principal articles of export are coffee, tiles, coco-nut kernels (copra), rice, salted fish, spices, and wood. The tiles are exported to Bombay and to ports in the Presidency. The coffee is brought from Mysore and Coorg to be cured, and is exported chiefly to the United Kingdom and France. The coco-nut kernels go chiefly to Bombay. rice to Malabar and Goa, and salted fish to Colombo. Large quantities of areca-nuts are shipped to Bombay and Kāthiāwār. The wood exported is chiefly sandal brought from Mysore and Coorg. chief imports are cotton piece-goods, grain, liquor, oil, copra, pulses. spices, sugar, salt, and salted fish, largely to meet local needs, but partly for re-export to Mysore and Coorg. The bulk of the trade is carried on at MANGALORE (the commerce of which is referred to in the separate article upon the place); and Malpe, Hangarkatta, and Gangoli are the most important of the outports. The most prominent by far of the mercantile castes are the Mappillas, who are followed by Telugu traders such as the Balijas and the Chettis. Konkani Brahmans, native Christians, and Rājāpuris also take a share. There are twenty weekly makets in the District under the control of the local boards.

The District had recently no railways; but the Azhikal-Mangalore extension of the Madras Railway, opened throughout in 1907, now affords communication with Malabar and the rest of the Presidency. Its construction is estimated to have cost 109 lakhs for a length of 78 miles. A line from Arsikere on the Southern Mahratta Railway to Mangalore has also been projected and surveyed.

The total length of metalled roads is 148 miles and of unmetalled roads 833 miles, all of which are maintained from Local funds. Avenues of trees have been planted along 467 miles. The main lines are the coast road from Kavoy to Shirūr; the roads leading to Mercāra through the Sampaji ghāt from Kāsaragod and Mangalore; and those from Mangalore through the Chārmādi ghāt to Mudugere tāluk, and through Kārkala and the Agumbe ghāt to the Koppa tāluk in Mysore. Lines running through the Kollūr, Hosangadi, Shirādi, and Bisale

ghāts also afford access to Mysore, and the main routes are fed by numerous cross-roads. The tidal reaches of the rivers and the numerous backwaters furnish a cheap means of internal communication along the coast. In the monsoon communication by sea is entirely closed; but during the fair season, from the middle of September to the middle of May, steamers of the Bombay Steam Navigation Company call twice weekly at Mangalore and other ports in the District. Mangalore is also a port of call for steamers of the British India Company and other lines. Large numbers of coasting craft carry on a brisk trade.

Owing to the abundant monsoons the District always produces more grain than is sufficient for its requirements. It is practically exempt from famine, and no relief has ever been needed except in the year 1812.

For administrative purposes South Kanara is divided into three subdivisions. Coondapoor, comprising the Coondapoor and Udipi Administration. Mangalore, corresponding to the tāluk of the same name (but including also the Amindīvi Islands), and Puttūr, comprising the Uppinangadi and Kāsaragod tāluks, are under Deputy-Collectors recruited in India. A tahsīldār and a stationary sub-magistrate are posted at the head-quarters of each tāluk, and deputy-tahsīldārs at Kārkala, Bantvāl, Beltangadi, and Hosdrug, besides a sub-magistrate for Mangalore town.

Civil justice is administered by a District Judge and a Subordinate Judge at Mangalore, and by District Munsifs at Mangalore, Kāsaragod, Udipi, Coondapoor, Puttūr, and Kārkala. The Court of Session hears the more important criminal cases, but serious crime is not more than usually common, and there are no professional criminal tribes in the District. Offences under the Abkāri, Salt, and Forest Acts are numerous; and civil disputes are frequently made the ground of criminal charges, especially in connexion with land and inheritance, the majority of the Hindu castes in the District being governed by the Aliya Santāna law of inheritance, under which a man's heirs are not his own but his sister's sons.

Little is known of the early revenue history of the District. Tradition gives one-sixth of the gross produce, estimated at first in unhusked and latterly in husked rice, as the share demanded by the government prior to the ascendancy of Vijayanagar. About 1336, in the time of Harihara, the first of the kings of that line, the land revenue system was revised. One-half of the gross produce was apportioned to the cultivator, one-quarter to the landlord, one-sixth to the government, and one-twelfth to the gods and to Brahmans. This arrangement thinly disguised an addition of 50 per cent. to the land revenue; and the assumed share of the gods and Brahmans, being collected by the

government, was entirely at its disposal. In 1618 the Ikkeri Rājās of Bednūr imposed an additional assessment of 50 per cent. on all the District except the Mangalore hobli, and at a later date imposed a tax on fruit trees. These additions were permanently added to the standard revenue. Other additions were made from time to time, amounting in 1762, when Haidar conquered Kanara, to a further 25 per cent. of the standard revenue, but still not sufficient to affect seriously the prosperity of the District. Haidar cancelled the deductions previously allowed on waste lands and imposed other additions, so that at his death the extras exceeded the standard revenue. The further exactions and oppressions of Tipū were such that much land went out of cultivation, collections showed deficiencies ranging from 10 to 60 per cent., and the District was so impoverished that little land had any saleable value

Major (afterwards Sir Thomas) Munro, the first Collector of the District, setting aside all merely nominal imposts and assessments on waste lands, imposed on Kanara and Sonda (the present Districts of North and South Kanara) a new settlement in 1700-1800. Some slight reductions were made in the following year. It worked smoothly for some time; then difficulty in the collections and signs of deterioration owing to over-assessment induced the Board of Revenue to order a revision, based on the average collections from each estate since the country came under the British Government. This assessment, introduced in 1810-20, was till recently in force in South Kanara, with the exception of a portion of the Uppinangadi tāluk which was subsequently taken over from Coorg. Continued difficulty in realizing the demand, owing to low prices and riotous assemblages of the cultivators, who refused to pay their assessment, led to a Member of the Board of Revenue being deputed in 1831 to inquire into the state of the District. He reported that the disturbances were due to official intrigues, that the assessment was on the whole moderate, though low prices had caused some distress, and that where over-assessment existed it was due entirely to the unequal incidence of the settlement, aggravated by the frauds of the village accountants, who had complete control over the public records. In accordance with his views, some relief was granted in the settlement for 1833-4 to those estates which were overassessed. The Board did not, however, regard these measures as satisfactory. Further correspondence confirmed the view that any attempt to base a redistribution of the assessment on the accounts then available was doomed to failure, owing to their fallacious nature. The Board therefore expressed the opinion that the only remedy was a settlement based on a correct survey. This proposal involved a consideration of the question whether any pledge had been given for the fixity of the settlement of 1819-20. After further correspondence

between the Collectors, the Board, and the Government, the question was dropped in 1851, the improvement in prices having meanwhile relieved the pressure of assessment on particular estates.

In 1880 the matter was again raised by the Government of India, in connexion with the general revision of settlements in the Présidency; and it was finally determined that the Government was in no way pledged to maintain the assessment unaltered, and that the survey and revision of settlement should be extended to Kanara in due course. A survey was begun in 1889 and settlement operations in October, 1894. A scheme was sanctioned for all the tāluks and has now been brought into operation. Under this the average assessment on 'dry' land is R. 0-9-7 per acre (maximum Rs. 2, minimum 2 annas); on 'wet' land Rs. 4-7-11 (maximum Rs. 10, including charge for second crop; minimum 12 annas); and on garden land Rs. 4-13-7 (maximum Rs. 8, minimum Rs. 2). The proposals anticipate an ultimate increase in the assessment of the District of Rs. 9,22,000, or 65 per cent., over the former revenue.

The revenue from land and the total revenue in recent years are given below, in thousands of rupees:—

| - | 1860-1 | 1890-1. 1900-1. | 1903-4. |
|----------------------------|----------------|--------------------------------|---------|
| Land revenue Total revenue | 13,38 17,90 | 14,69 · 15,26 21,63 · 25,41 | 27,76 |

Outside the municipality of Mangalore, local affairs are managed by the District board and the three tāluk boards of Coondapoor, Mangalore, and Puttūr, the areas in charge of which correspond with the subdivisions of the same names. Their total expenditure in 1903-4 was Rs. 2,82,000, of which Rs. 1,57,000 was laid out on roads and buildings. The chief source of income is, as usual, the land cess. South Kanara contains none of the Unions which on the east coast control the affairs of many of the smaller towns.

The police are in charge of a District Superintendent, whose headquarters are at Mangalore. The force numbers to inspectors and 558 constables, and there are 50 police stations. Village police do not exist.

There is a District jail at Mangalore, and 8 subsidiary jails at the head-quarters of the *tahsildārs* and their deputies have accommodation for 85 males and 35 females.

At the Census of 1901 South Kanara stood eleventh among the Districts of the Presidency in the literacy of its population, 5-8 per cent. (11-1 males and 0-9 females) being able to read and write. Education is most advanced in the Mangalore tāluk, and most backward in the hilly inland tāluk of Uppinangadi. In 1880-1 the number

of pupils of both sexes under instruction in the District numbered 6.178; in 1890-1, 18,688; in 1900-1, 24,311; and in 1903-4, 27,684. On March 31, 1904, the number of educational institutions of all kinds was 658, of which 502 were classed as public and 156 as private. The public institutions included 474 primary, 23 secondary, and 3 special schools, and 2 colleges. The girls in all of these numbered 4.107, besides 1.566 under instruction in elementary private schools. Six of the public institutions were managed by the Educational department, 85 by local boards, and 7 by the Mangalore municipality, while 278 were aided from public funds, and 126 were unaided but conformed to the rules of the department. Of the male population of school-going age in 1903-4, 21 per cent, were in the primary stage of instruction, and of the female population of the same age 4 per cent. Among Musalmans, the corresponding percentages were 20 and 6 respectively. Education, especially that of girls, is most advanced in the Christian community. Two schools provide for the education of Panchamas or depressed castes, and are attended by 37 pupils. The two Arts colleges are the St. Aloysius College, a firstgrade aided institution, and the second-grade Government College. both at Mangalore. The former was established in 1880 by the Jesuit Fathers. The total expenditure on education in 1903-4 was Rs. 2.22,000, of which Rs. 77,000, or 35 per cent., was derived from fees: and 53 per cent. of the total was devoted to primary education.

The District possesses 8 hospitals and 11 dispensaries, with accommodation for 75 in-patients. In 1903 the number of cases treated was 135,000, including 1,600 in-patients, and 3,200 operations were performed. The expenditure was Rs. 38,000, which was mostly met from Local and municipal funds.

In 1903-4 the number of persons successfully vaccinated was 28,000, or 23 per 1,000 of the population. Vaccination is compulsory only in the Mangalore municipality.

[J. Sturrock and H. A. Stuart, District Manual (1894).]

Kanārak.—Temple in Purl District, Bengal. See Konārak.

Kānaud Town.—Head-quarters of the Mohindargarh nizāmat and tahsīl, Patiāla State, Punjab, situated in 28° 16′ N. and 76° 13′ E., 24 miles south of Dāri. Population (1901), 9,984. Kānaud was founded by Malik Mahdūd Khān, a servant of Bābar, and first peopled, it is said, by Brāhmans of the Kanaudia sāsan or group, from whom it takes its name. It remained a pargana of the sarkār of Nārnaul under the Mughal emperors, and about the beginning of the eighteenth century was conquered by the Thākur of Jaipur, who was in turn expelled by Nawāb Najaf Kuli Khān, the great minister of Shāh Alam. On his death his widow maintained her independence in the fortress, but in 1792 Sindhia's general, De Boigne, sent a force against it under

Perron. Ismail Beg persuaded its mistress to resist, and marched to her relief; but she was killed in the battle which ensued under the walls of Kānaud, and Ismail Beg surrendered to Perron. Kānaud then became the principal stronghold of Appa Khande Rao, Sindhia's feudatory, who held the Rewāri territory, and eventually became a possession of the British, by whom it was granted to the Nawāb of Jhajjar. By the sanad of January 4, 1861, the British Government granted parganas Kānaud and Kuddhūāna to the Mahārājā of Patiāla, with all rights pertaining thereto, in lieu of 19·4 lakhs. The town has an Anglo-vernacular middle school, a dispensary, and a police station. The fort of Kānaud, known as Mohindargarh, contains the head-quarters offices of the Mohindargarh nizāmat and tahsīl.

Kanaul Tahsil (Kannaui).—South-eastern tahsil of Farrukhābād District. United Provinces. conterminous with the pargana of the same name, lying along the Ganges, between 26° 56' and 27° 12' N. and 79° 43' and 80° 1' E., with an area of 181 square miles. Population decreased from 117,220 in 1801 to 114,215 in 1901. There are 206 villages and one town. KANAUJ (population, 18,552). The demand for land revenue in 1903-4 was Rs. 1.05.000, and for cesses Rs. 31.000. The density of population, 631 persons per square mile, is above the District average. The tahsil consists of two parts: the uplands or bangar, and the lowlands near the Ganges, or kachoha, the former covering the larger area. The Kāli Nadī (East) crosses the tahsīl and joins the Ganges. In 1903-4 the area under cultivation was 124 square miles, of which 43 were irrigated. Irrigation is supplied almost entirely from wells, and the tract is liable to suffer in dry seasons. This was the only tahsil in the District which lost in population between 1801 and 1001.

Kanauj Town (Kannauj).—Ancient city in Fairukhābād District, United Provinces, situated in 27° 3' N. and 79° 56' E., 2 miles from the grand trunk road and the Cawnpore-Achhnera Railway, and close to the Kāli Nadi (East). The Ganges once flowed below its walls, but is now some miles away. Population (1901), 18,552. The town finds no mention in the Mahābhārata, but the legend of its foundation is given in the Rāmāyana. Kusīnābha, the founder, had a hundred daughters, all but the youngest of whom scorned the hermit, Vayu. In revenge he cursed them, and their backs became humped, whence the city was called Kanya-kubia, or 'the crooked maiden.' Early in the Christian era Ptolemy refers to Kanauj as Kanagiza. The town was included in the Gupta dominions in the fifth century; and when the Gupta empire fell to pieces it became the capital of the Maukharis, one of the petty dynasties which arose in its place. In the sixth century it suffered from war with the White Huns and their ally, the king of Malwa: but early in the seventh century it was included in the great empire of Harshavardhana in Northern India. The Chinese pilgrim. Hiven Tsiang, who visited this monarch and travelled with him from Allahabad to Kanaui, describes the magnificence of his court. Harshavardhana's death was the signal for anarchy, and the detailed history of the following years is unknown. In the latter half of the ninth century a dynasty of Raghuvansi kings reigned from Kanaui. which was also called Mahodaya, over an extensive dominion. One of these kings was defeated in 017 by the king of Guiarat, but restored by the Chandel king of Mahoba. In 1010 Mahmud of Ghazni plundered Kanaui, which now came into the power of the Rathors, the most celebrated of whom was Gobind Chand (1115-55). Nearly 200 years later, in 1104, Muhammad Ghori defeated lai Chand, the last or the Rathor kings, and the great kingdom of Kanaui came to an end-Under the Muhammadans Kanaui became the seat of a governor, but lost its old importance. In the fifteenth century it was included for some years in the Sharki kingdom of Jaunpur; and when Mahmud, son of Firoz Tughlak, lost his hold on Delhi, he resided here for a time. It was close to Kanaui, though across the Ganges in Hardof District. that Humāvūn was defeated by Sher Shāh. Under Akbar, when order had once been restored. Kanauj entered on a long period of peace, and it is recorded in the Ain-i-Akbari as the head-quarters of a sarkar. During the eighteenth century it belonged sometimes to the Nawabs of Farrukhābād, again to the Nawābs of Oudh, and at times to the Marathas. The town or kingdom of Kanaui has given its name to an important division of Brahmans, and to many subdivisions of lower castes. Of the Hindu buildings which must have graced the place. nothing remains intact. The fine Jama Masjid, built in 1406 by Ibrāhīm Shāh of launpur, was constructed from Hindu temples, and the site is still known to Hindus as Sītā kī rasoi, or 'Sītā's kitchen.' There are many tombs and shrines in the neighbourhood, the most notable being those of Makhdum Jahaniya south-east of the town, and of Makhdum Akhai Jamshid a miles away, both dating from the fifteenth century. The most conspicuous buildings are, however, the tombs of Bālā Pīr and his son, Shaikh Mahdī, religious teachers who flourished under Shah Jahan and Aurangzeb. The neighbourhood for miles along the river is studded with ruins, which have not been explored. The town lies on the edge of the old high bank of the Ganges, and, but for the high mounds and buildings described above, is not distinguishable from many places of similar size. The houses are fairly well built but small, and the most conspicuous modern building is a fine sarai recently completed. The dispensary, taksili, and munsift are at Sarai Mīrān, 2 miles south of Kanauj. The town is administered under Act XX of 1856, with an income of about Rs. 4,000. It is famous for its scent distilleries, where rose-water, otto

of roses, and other perfumes are produced, which have a great reputation. Calico-printing is also carried on, but is not so important an industry here as in Farrukhābād city. There was formerly a small manufacture of country paper, and a cotton gin has been worked at intervals in the last few years. The town school has 113 pupils and two primary schools 96. There is also a flourishing aided school, housed in a fine building.

Kanaung.—Northern township of Henzada District, Lower Burma, lying between 17° 54' and 18° 19' N. and 94° 48' and 95° 31' E., with an area of 615 square miles. The population increased from 79,499 in 1891 to 92,365 in 1901, the density being 150 persons per square mile. The township extends from the Arakan Yoma in the west to the Irrawaddy, widening as it approaches the river. About one-third is uncultivable, being covered by the spurs of the Yoma. The lands in the western part are protected by embankments and fertile. The population consists almost entirely of Burmans, Karens, and Chins, in the proportions of 92, 6, and 1½ per 100. There are 428 villages and one town, Myanaung (population, 6,351). Kanaung (891) is the head-quarters. The area cultivated in 1903-4 was 149 square miles, paying Rs. 2,25,000 land revenue.

Kanāwār.—The upper or north-eastern subdivision of Bashahr State, Punjab, consisting in great part of the valley of the Upper Sutlej. It lies between 31° 7′ and 32° 5′ N. and 77° 48′ and 79° 4′ E. It is bounded on the north by Spiti: on the east by Chinese territory; on the south by Bashahr proper and Tehrī: and on the west by the Kochi subdivision of Bashahr. The estimated area is 1,730 square miles, and the population in 1901 was 17,741.

Kanāwār is a rugged country, 50 miles in length by 40 in breadth, through whose ridges winds the deeply cleft valley of the Sutlej. The precipitous banks of the main river afford little room for cultivation, but the valleys of its tributaries are assiduously tilled by the mountaineers, Until about forty-five years ago, grapes yielded an abundant vintage, being manufactured into raisin wine and strong spirit. Vine disease subsequently reduced the vintage to a quarter of what it once was, but has recently subsided. The population consists of a mixed Tibetan and Hindu race, the Mongolian element preponderating in the north, while the southern region is inhabited by persons of Aryan type. Alone among the neighbouring hill tribes, the Kanawaris successfully resisted the Gurkha invasion, and so completely baffled the enemy by breaking down bridges, that the Gurkhas entered into a convention by which, in return for a tribute of Rs. 11,250, they agreed to leave the valley unmolested. Polyandry exists in its fullest form throughout Kanawar. Religion, broadly speaking, follows race. The northern villages profess Buddhism of the Tibetan model: in the south Hinduism prevails, while the middle region shades off gradually from one faith into the other. The language varies, like the religion, from Tibetan in the north to neo-Sanskritic dialects on the Indian side. The chief villages in the valley are Sangnam and Kanum.

Kanbalu Subdivision.—Subdivision of Shwebo District, Upper Burma, containing the Kanbalu and Kyunhla townships.

Kanbalu Township.—North-eastern township of Shwebo District, Upper Burma, lying between the Mu and the Irrawaddy rivers, between 22° 51' and 23° 44' N. and 95° 22' and 96° 1' E., with an area of 1,636 square miles. The country is dry and flat, and only the south-western corner is at all thickly populated. The population was 31,872 in 1891, and 44,783 in 1901, distributed in 259 villages, Kanbalu (population, 1,003), on the railway, being the head-quarters. The area cultivated in 1903–4 was 132 square miles, and the land revenue and thathameda amounted to Rs. 64,300.

Kanchenjanga.—Mountain in Sikkim State, Bengal. See Kin-

Kanchivaram.—Tāluk and town in Chingleput District, Madras. See Conjeuveram.

Kānchrāpāra.—Village in the Barrackpore subdivision, District of the Twenty-four Parganas, Bengal, situated in 22° 57′ N. and 88° 26′ E. Population (1901), 1,545. Kānchrāpāra is an important station on the Eastern Bengal State Railway, and the railway workshops are situated here. It lies within the Hālisahar municipality.

Kandahār Province.—Province of Afghānistān, bounded on the north by the Taimani country in the Herāt province, and by the Hazārajāt and Ghazni districts of Kābul; on the east and south by Baluchistān; and on the west by Farrah. Within the administrative charge of the naih-ul-hukumā (governor) of Kandahār are comprised the division of Chakansūr, and the minor divisions or districts of Kalāt-i-Ghilzai, Mākur, Pusht-i-Rūd, Zamindawar, and Girishk.

The province is divided into two well-marked portions, differing essentially from each other in character, by a line drawn from Kandahār to Farrah. North of this line, and also to the north-east, the country is hilly, and gradually becomes more mountainous northwards. The general elevation of portions of Pusht-i-Rūd and Zamindawar is about 4,000 feet, while in the Bhagni tract of Pusht-i-Rūd there are mountains of 10,000 feet in altitude. In the north-east Kalāt-i-Ghilzai is 5,543 feet above sea-level, and in its neighbourhood are peaks of not less than 9,500 feet. South of the dividing line above mentioned, the elevation is at first between 2,000 and 2,500 feet, but it rapidly decreases. The country watered by the lower courses of the Harūt, Farrah, and Helmand is open, forming the only plains of Afghānistān proper. To the south of Kandahār city is the desert of Registān; in

the south-west lies the great Afghān-Seistān desert. The province is drained by the Kadenai, Tarnak, Arghastān, Arghandāb, Helmand, Harūt, and Farrah Rūd rivers. Rising in the mountains north of the province, the Helmand with its tributaries eventually loses itself in the Seistān Hāmūn.

The name of the province seems to connect it with the Indian people known to the Greeks as *Gandarii*, but the present inhabitants are almost entirely Durrānis. The towns contain a considerable number of Pārsiwāns (people of Persian descent), while in Kandahār city there are about 5,000 Hindus. No reliable estimate of the total population can be given.

The climate varies considerably; that of the deserts is excessively trying, but with this exception it is on the whole good. In the mountainous regions the winters are severe, but elsewhere the cold is not great.

Kandahār City.—Capital of the Kandahār province of Afghānistan, situated in 31° 27 N. and 65° 43' E., 354 miles from Herat by the shortest route, 313 from Kābul via Maidān, and about 62 miles from the British border at New Chaman; 3,462 feet above the sea. The city is situated between the Tarnak and Arghandab rivers on a level plain, intersected by numerous canals, and highly cultivated and well populated to the south and west, but barren to the north, northwest, and north-east. It forms an irregular oblong, longest from north to south, with a circuit of over 1 miles. It is surrounded by a ditch 24 feet wide and 10 feet deep, and by a wall 27 feet in height. There are six gates, two each on the east and west, and one on the north and on the south. The four principal streets are about 40 yards wide, and are named after the gates to which they lead from the Charsu, their point of intersection. Smaller and narrower streets branch from the main arteries towards the city walls. Kandahār is divided into four quarters, the various tribes which constitute the inhabitants occupying. to a great extent, separate portions. The different classes of merchants and shopkeepers also occupy separate streets, or portions of streets, in the various quarters. The houses are generally built of sun-dried bricks, and are flat-roofed, some with upper storeys. Those of the rich are enclosed by high walls, and many contain three or four courts, with gardens and fountains. The citadel is situated at the north of the city. South of it is an open space called the Topkhana; west is another open space in which is situated the tomb of Ahmad Shah Durrani. This structure overtops all the surrounding buildings, and its lofty dome attracts the attention of the traveller approaching the city from a distance. There are more than 180 Sunni mosques in the city, of which the Khirka Mubarak, a place of sanctuary (bast), is the most celebrated. Notwithstanding the large number of Shiah inhabitants, there is no Shiah mosque. A commodious caravanserai exists, outside the eastern gate for the storage of wool and other goods going to India.

The total population of Kandahār city is estimated at 31,000, among whom Pārsiwāns predominate. There are about 1,600 shops, and a ganj where a large cattle, sheep, and grain market is held daily. The usual water-supply is derived, by numerous canals, from the Arghandāb, but an ample supply is also available from wells. The climate of Kandahār is not salubrious, probably owing to the want of sanitation and to the large graveyards on one side and the marshes on the other. The rainfall is small, and occurs during the winter and early spring. In the summer months the heat is intense. The temperature varies greatly between sunrise and mid-day, sometimes by as much as 40° or 50°.

Kandahār is famous for its fruits, which are as plentiful as they are good; apricots, peaches, pomegranates, grapes, figs, and melons are all excellent of their kind and, fresh or dry, are largely exported. A considerable amount of tobacco is also grown for export to India.

Kandahār is one of the principal trade centres in Afghānistān. There are no manufactures or industries of any importance peculiar to the city; but the long lines of bazars display goods from Great Britain, India, Russia, Persia, and Turkistān, embracing a trade area as large probably as that of any city in Asia. The customs and towns dues together amount to a sum equal to the land revenue of the entire province. The Hindus are the most numerous and the wealthiest merchants in Kandahār, carrying on a profitable trade with Bombay and Sind. They import British manufactures, e.g. silks, calicoes, muslins, chintzes, broadcloth, and hardware; and Indian produce, such as indigo, spices, and sugar. They export asafoetida, madder, wool, dried fruits, tobacco, silk, rosaries, &c. In 1903-4 the exports to India from Kandahār were valued at nearly 35 lakhs, and the imports at 33 lakhs.

From early times Kandahār must have been a town of much importance in Asia, as being the central point at which the roads from Herāt, Seistān, Ghor, Kābul, and India unite. The position did not escape the notice of Alexander the Great, and Kandahār (Alexandria Arachoton) is probably one of the cities that he founded or rebuilt. After being a portion of the Seleucid, Parthian, Sassanid, and Arab empires, Kandahār, on the break-up of the Khalīfat, fell successively to the Persian Saffārids and Sāmānids, to the house of Ghazni, the Seljūks, the Ghorids, and the Shāhs of Khwārizm, and in 1222 it was captured by the Mongols under Chingiz Khān. From his descendants it passed for a time to the Kart dynasty of Herāt, an offshoot of the Ghorids, and in 1389 it was taken by Tīmūr Lang. Between 1468 and 1512 it was under local chiefs, but in the latter year it was recovered for

the Timurids by Babar, the founder of the Mughal empire. After his death Kandahar was a constant subject of contention between the Mughals and the Persian Safavids; and after being several times captured and recaptured by one or the other, it finally passed out of Mughal possession in 1648, the subsequent efforts of Shah Jahan's sons. Aurangzeb and Dārā Shikoh, to recover it proving fruitless. In 1708 the Ghilzais of Kandahar threw off the Persian voke, and a few years later defeated the Safavids in Persia itself. Persian rule was restored for a short time by Nādir Shāh, who destroyed the city in 1738 and built a new one. The old city is now known as Shahr-i-Kohna. and its ruins lie at the base of a bare rocky hill 3 miles to the west of the present town. Nādir Shāh's foundation was in turn destroyed by his Afghan successor, Ahmad Shah, who founded the existing city in 1747. In 1824 Shah Shuja, the dispossessed (Sadozai) king of Afghānistān, attempted to re-establish himself in Kandahār, but he was driven off by his Bārakzai rival. Dost Muhammad, who, after his victory, took the title of Amīr.

This was the last unaided attempt of the Sadozais to retake Kandahar. The next time Shah Shuja appeared on the field it was with the support of the British Government. The Army of the Indus occupied Kandahār in April, 1830, and Shāh Shujā was crowned there in May. While the restored king with the main British army marched on Kābul, a force was left under General Nott to hold Kandahār. In 1842, after the revolt at Kābul and the massacre of Burnes and Macnaghten, an attack was made on the city by large bodies of Afghāns under Safdar Jang Sadozai, but it was beaten off with heavy loss, and a fresh attempt soon after was equally unsuccessful. August, 1842, Nott marched to Kābul, and Safdar Jang then took possession of Kandahār, only to be driven out four months afterwards by Kohan Dil Khān, who had come from Persia. On the death of the latter in 1855 his son. Muhammad Sādik, held the city for a short time until Dost Muhammad took possession in November of the same year. Dost Muhammad appointed his son, Ghulām Haidar Khān, governor, and on his death in 1858 Sher Ali Khan succeeded him. On the latter becoming Amir, he appointed his full brother, Muhammad Amin Khān, to be governor. This chief rebelled and was killed in battle in 1865. Kandahār again fell into Sher Alī's hands; passed from his grasp to that of his half-brother and rival, Azīm Khān, in 1867; and again fell into the power of Sher Ali, through his son, Yakub Khan,

During the last Afghān War Kandahār was occupied by British troops in January, 1879; and in May, 1880, Sardār Sher Alī Khān was installed as Wall of the Kandahār province, which was to be independent of Kābul. In July, Sardār Muhammad Ayūb Khān, a younger

brother of Yaküb Khān, advancing from Herāt, inflicted a crushing defeat on a brigade of British troops at Maiwand and invested Kandahar. A relieving force under General Roberts lest Kabul on August 8, arrived at Kandahar on the 31st, and on September 1 totally defeated Ayūb, whose camp, artillery, and baggage were captured, the Sardar escaping with a handful of followers. The victory immediately quieted the country, and the last of the British forces evacuated Southern Afghanistan in April, 1881. Sher Ali Khan had found himself too weak to maintain the position conferred on him, and had retired, at his own request, to India, where he ended his days as a British pensioner. Within three months of the British withdrawal. Avub Khan, who had been maintaining himself with spirit at Herat. again took the field, and, after defeating Abdur Rahman's troops, occupied Kandahar. He was, however, utterly defeated by the Amīr in September, 1881, and fled towards Herat: but that city had, meanwhile, been occupied by one of the Amīr's lieutenants, and Avūb Khān had to seek refuge in Persia. He came to India in 1888, and has since resided there.

Kandahār.—Western tāluk of Nānder District, Hyderābād State, with an area of 680 square miles. The population in 1901, including iāgārs, was 97,728, compared with 128,525 in 1891, the decrease being due to the famine of 1900. Kandahār contained till recently one town, Mukkhen (population, 6,148), the head-quarters; and 190 villages, of which 37 are jāgār. The land revenue in 1901 was 2.5 lakhs. Regar forms its predominant soil. In 1905 the tāluk was enlarged by the addition of some villages from Osmānnagar.

Kandh.—Tribe in the Central Provinces and Madras. See Khond. Kandhkot.—Tāluka of the Upper Sind Frontier District, Sind, Bombay, lying between 27° 59' and 28° 27' N. and 68° 57' and 69° 22' E., with an area of 543 square miles. The population in 1901 was 48,723, compared with 30,369 in 1891. The density, 90 persons per square mile, approximates to the District average. The tāluka contains 82 villages, of which Kandhkot is the head-quarters. The land revenue and cesses in 1903-4 amounted to nearly 1.9 lakhs. The tāluka depends for irrigation upon the Begārī, Unhar Wah, and Desert Canals, the canals from the Kashmor Band, and upon river floods.

Kāndhia.—Town in the Budhāna taksīl of Muzassarnagar District, United Provinces, situated in 29° 19′ N. and 77° 16′ E., near the Eastern Jumna Canal, 29 miles south-west of Muzassarnagar town. Population (1902), 11,563. It is situated on low ground and the neighbourhood is swampy. The more important streets are metalled and drained. Kāndhla was constituted a municipality in 1872. The income and expenditure during the ten years ending 1901 averaged

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Rs. 6,700. In 1903-4 the income was Rs. 11,000, chiefly derived from octroi (Rs. 6,600); and the expenditure was Rs. 11,000. There is a considerable local trade in grain, cotton, and cloth, which is manufactured here. The taksili school had 130 pupils in 1904.

Kandhmala.—Subdivision in Angul District, Bengal. See KHOND-

Kāndi Subdivision.—South-western subdivision of Murshidābād District, Bengal, lying between 23° 43' and 24° 12' N. and 87° 50' and 88° 14' E., with an area of 512 square miles. The subdivision, which is watered by the Bhāgīrathi and Dwārka rivers, consists for the most part of undulating country, but near those rivers the land is alluvial and low-lying. The population in 1901 was 334,053, compared with 297,122 in 1891, the density being 652 persons per square mile. It contains one town, Kāndi (population, 12,037), its head-quarters: and 883 villages.

Kandi Town.—Head-quarters of the subdivision of the same name in Murshidabad District, Bengal, situated in 23° 58' N. and 88° 3' E., near the Mor river. Population (1901), 12,037. Kāndi owes much of its importance to the fact that it is the residence of the Raias or Paikpāra, a wealthy and devout Hindu family. The founder of this family was Ganga Gobind Singh, a banian of Warren Hastings, who was born at Kandi, and retired thither in his old age with an immense fortune, which he devoted to the erection of shrines and images of Krishna. His name has acquired a traditional celebrity for the most magnificent srāddha or funeral obsequies ever performed in Bengal. costing 20 lakhs, in honour of his mother. Kandi was constituted a municipality in 1860. The income and expenditure during the decade ending 1901-2 averaged Rs. 7,000. In 1903-4 the income was Rs. 9,000, mainly from a tax on persons; and the expenditure was Rs. 8,000. The town contains the usual public offices, a sub-jail with accommodation for 24 prisoners, and a dispensary with 24 beds. latter is maintained from the proceeds of an endowment fund, now amounting to 1.59 lakhs, left by the late Kumar Giris Chandra Sinha of Paikpāra, and is the best-equipped hospital in the District.

Kāndi.—Village in the Kalabgūr tāluk of Medak District, Hyderābād State, situated in 17° 35' N. and 78° 6' E., 5 miles south-east of Sangareddipet. Population (1901), 1,573. Upon the open plain close by stand two stones with Telugu or old Kanarese inscriptions, surmounted by the sun and moon.

Kandiāro Tāluka.— Tāluka of Hyderābād District, Sind, Bombay, lying between 26° 55' and 27° 14' N. and 68° 2' and 68° 30' E., with an area of 320 square miles. The population in 1901 was 62,937, compared with 55,733 in 1891. The density, 197 persons per square mile, is, after Hyderābād tāluka, the highest in the

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District. The number of villages is 69, of which Kandiāro is the head-quarters. Land revenue and cesses in 1903-4 amounted to more than 1½ lakhs. The surface of the tāluka has the appearance of two large land waves with three depressions; and throughout its length on the river bank it is protected by a belt of forests. About two-thirds of the total is irrigated by canals, aided by wells. The chief crops are wheat, jowār, and gram.

Kandiāro Village.—Head-quarters of the tāluka of the same name in Hyderābād District, Sind, Bombay, situated in 27° 3′ N. and 68° 17′ E., on the Nasrat canal. Population (1901), 3,916. The principal occupation of the inhabitants is agriculture, but the Hindus are engaged in trade, which is mainly in grain and cloth. The village is said to have been built during the reign of Jahāngīr. Before it was founded another was in existence close by, called Patoipur, which was abandoned owing to an unusual rise of the inundation waters. The site of the present village was then chosen as being more elevated; and having at the time a large number of kandi trees growing upon it, the place took, it is supposed, from this circumstance the name of Kandiāro. Kandiāro has a technical school supported by the local board with an average daily attendance of 80 students, 6 other schools, of which 2 are for girls, and a dispensary.

Kandukūr Subdivision.— Subdivision of Nellore District, Madras, consisting of the *tāluks* of Kandukūr and Kanagiri and the *samīndāri tahslis* of Darsi and Popili.

Kandukūr Tāluk.—Coast tāluk of Nellore District, Madras, lying between 14°58′ and 15°30′ N. and 79°38′ and 80°5′ E., with an area of 787 square miles. The population in 1901 was 151,417, compared with 148,475 in 1891. It contains one town, Kandukūr (population, 9,569), the head-quarters; and 161 villages. The demand on account of land revenue and cesses in 1903–4 amounted to Rs. 3,58,000. The tāluk may before long be well supplied with irrigation, as it will be commanded by the great Tungabhadra-Penner and Kistna projects. The Manneru with its affluent, the Upputeru, the Paleru, the Mūsi, and the Yelikeru are the chief rivers. The Manneru feeds the Karedu tank, but the others are at present undeveloped as sources of irrigation.

Kandukūr Town.—Head-quarters of the tāluk of the same name in Nellore District, Madras, situated in 15° 13' N. and 79° 54' E., about 9 miles west of Singarāyakonda railway station and 13 miles from the sea. Population (1901), 9,569, mainly agriculturists. Two ancient temples here are dedicated to Vishnu and Siva.

Kaner.—Petty State in Kāthiāwāk, Bombay.

Kanethi.—Petty State feudatory to the Bashahr State, Punjab, lying in two portions between 31° 9′ and 31° 18′ N. and 77° 32′ and vol. xiv.

17° 40' E. The area is 19 square miles, the population (1901) 2,575, and the revenue Rs. 4,000, about half of which is derived from forests. The present Thākur is Amog Chand, a Hindu Rājput, related to the Rānā of Kumhārsain. His territory is bounded by Kumhārsain, Bashahr, and the Kot Khai pargana of Simla District. The State has suffered much from misgovernment, and it has been necessary to take it under direct management. The Thākur, who is a minor, is being educated at the Aitchison College; and during his minority the administration is conducted by an official deputed by Government, who exercises full powers, except that sentences of death require the confirmation of the Superintendent, Hill States, Simla. The State pays a tribute of Rs. 900 to Bashahr.

Kängra District.—North-easternmost District of the Jullundur Division, Punjab, lying between 31° 21' and 32° 59' N. and 75° 37' and 78° 42' E., with an estimated area of 9,978 square miles. It is bounded on the north-west by Chamba State; on the north by Kash mir territory; on the east by Tibet; on the south-east by Bashahr State; on the south by the Kotgarh villages of Simla District, and by the States of Kumhärsain, Sangri, Suket, Mandī, and Bilāspur; on the south-west by the District of Hoshiārpur; and on the west by Gurdāspur. It stretches eastwards from the plains of the Bāri and Jullundur Doābs across the Himālayan ranges to the borders of Tibet, and comprises two distinct tracts which lie on either side of the Outer Himālayas and present very diverse natural features. Of these two tracts the western block, which constitutes Kāngra proper, is described in this

Physical aspects.

article. This portion, which lies south of the Dhaola Dhār range of the Outer Himālayas, consists of an irregular triangle, whose base lies upon the Hoshiār-pur border, while the Native States of Chamba and Mandī constrict its upper portion to a narrow neck, known as Bangāhal, at one point less than 10 miles in width. Beyond this, the eastern block expands once more like an hour-glass, and embraces the Kulū subdivision, which comprises the tahsils of Kulū and Sarāj and the mid-Himālayan cantons of Lāhul and Spiti, each of which merits separate description.

Of the total estimated area of 9,978 square miles, 2,939 are in Kängra proper. This is the more important part of the District as regards population and cultivation, and comprises two wide and fertile valleys. The Kängra valley lies between the Dhaola Dhär and the long irregular mass of lower hills which run, almost parallel to the Dhaola Dhär, from north-west to south-south-east. The second valley runs between these hills and the Sola Singhi range, and thus lies parallel to the Kängra valley. On the north-west the District includes the outlying spurs which form the northern continuation of the Sola Singhi, running down to the banks of the Beäs and Chakki, and it also

embraces the western slopes of that range to the south. The Kangra valley is famous for its beauty, the charm lying not so much in the rich cultivation and perpetual verdure of the valley itself as in the constant yet ever-changing view of the Dhaola Dhar, whose snowy peaks rise sheer above the valley, sometimes to 13,000 feet, and present a different phase of beauty at each turn in the road. The taluka of Bangahal forms the connecting link between Kangra proper and Kulu, and is divided by the Dhaola Dhar into two parts: to the north Bara or Greater Bangahal, and to the south Chhota or Lesser Bangahal.

Although the general trend of the three main ranges which enclose the valleys of Kāngra proper is from north-west to south-east-by-south, its one great river, the Beās, flows through this part of the District from east to west. Entering the centre of its eastern border at the southern head of the Kāngra valley, it runs past Sujānpur Tīra in a narrow gorge through the central mass of hills, flowing westwards with a southerly trend as far as Nādaun. Thence it turns sharply to the north-west, flowing through the valley past Dera Gopipur; and gradually winding westward, it passes between the northern slopes of the Sola Singhi range and the hills forming its continuation to the north. The remainder of the District is singularly devoid of great streams. The Kāngra valley is drained by several torrents into the Beās, the principal of these flowing in deep gorges through the central hills.

All three facies of the stratified rocks of the Himālayas are to be found. To the north, in Spiti, the Tibetan zone is represented by a series of beds extending in age from Cambrian to Cretaceous; this is separated from the central zone by the granite range between Spiti and Kulū. The rocks of the central zone consist of slates, conglomerate, and limestone, representing the infra-Blaini and overlying systems of the Simla area. Still farther to the south the third or sub-Himālayan zone consists of shales and sandstones (Sirmūr series) of Lower Tertiary age, and sandstones and conglomerates belonging to the Upper Tertiary Siwālik series. The slate or quartz-mica-schist of the central zone is fissile, and of considerable value for roofing purposes; it is quarried at and round Kanhiāra. Gypsum occurs in large quantity in Lower Spiti.

The main valley is the chief Siwālik tract in the Province, but its flora is unfortunately little known. An important feature is the existence of considerable forests of the *chīr* (*Pinus longifolia*), at comparatively low elevations. Kulū (or the upper valley of the Beās) has a rich temperate flora at the higher elevations; in the lower valleys and

¹ Medlicott, 'The Sub-Himālayan Ranges between the Ganges and Rāvi,' Memoirs, Geological Survey of India, vol. iii, part ii; Stoliczka, 'Sections across the North-West Himālayas,' Memoirs, Geological Survey of India, vol. v, part i; Hayden, 'Geology of Spiti,' Memoirs, Geological Survey of India, vol. xxxvi. part i.

in Outer Sarāj (on the right bank of the Sutlej) the vegetation is largely sub-tropical, with a considerable western element, including *Clematis orientalis*, a wild olive, &c. The flora of British Lāhul, the Chandra-Bhāga or Chenāb valley, and Spiti, are entirely Tibetan.

The forests of Kangra District used to abound in game of all descriptions: and of the larger animals, leopards, bears, hyenas, wolves. and, various kinds of deer are still fairly common. Tigers visit the District occasionally, but are not indigenous to these hills. The ibex is found in Lahul, Spiti, Kulu, and Bara Bangahal; and the musk deer in Kulu and on the slopes of the Dhaola Dhar. The wild hog is common in many forests in the lower ranges. Of smaller quadrupeds, the badger, porcupine, pangolin, and otter are commonly found. Different species of wild cat, the flying squirrel, hare, and marmot abound in the hills. The bird-life of both hill and plain is richly represented; and, though game is not very abundant, many species are found. These include several varieties of pheasant, among them the monal and argus, the white-crested pheasant, and the red jungle-fowl which is common in the lower valleys. Of partridges many species are found, from the common grey partridge of the plains to the snow partridge of the Upper Himalayas. Quail and snipe sometimes visit the District in considerable numbers. Ducks, geese, and other waterbirds are seen upon the Beas at the beginning and end of summer. Fishing is not carried on to any great extent. Thirty-six fisheries are leased to contractors, mostly on the Beas, only a few being in the lower parts of the hill torrents.

The mean temperature at Kāngra town is returned as 53° in winter, 70° in spring, 80° in summer, and 68° in autumn. The temperature of the southern portion of Kāngra proper is much higher than this, while that of the inhabited parts of the Dhaola Dhār is about 8° lower. Endemic diseases include fever and goitre. The widespread cultivation of rice, by which the whole Kāngra valley is converted into a swamp, has a very prejudicial effect upon health.

The rainfall varies remarkably in different parts. The average annual fall exceeds 70 inches; along the side of the Dhaola Dhār it amounts to over 100; while 10 miles off it falls to about 70, and in the southern parts to about 50. Barā Bangāhal, which is on the north side of the Dhaola Dhār, has a climate of its own. The clouds exhaust themselves on the south side of the great range; and two or three weeks of mist and drizzle represent the monsoon. The rainfall in Kulū is similarly much less than that of Kāngra proper, averaging from 30 to 40 inches, while Lāhul and Spiti are almost rainless.

A disastrous earthquake occurred on April 4, 1905. About 20,000 human beings perished, the loss of life being heaviest in the Kängra and Pälampur tahsils. The station of Dharmsäla and the town of

Kāngra were destroyed. The fort and temples at Kāngra received irreparable damage, and many other buildings of archaeological interest were more or less injured.

The hills of Kangra proper have formed for many centuries the dominions of numerous petty princes, all of whom traced their descent from the ancient Katoch (Raiput) kings of Jullundur. History. According to the mythical chronology of the Mahabhārata, this dynasty first established itself in the country between the Sutlei and the Reas 1.500 years before the Christian era. In the seventh century A.D., Hiuen Tsiang, the Chinese Buddhist pilgrim, found the Jullundur monarchy still undivided. At some later period. perhaps that of the Muhammadan invasion, the Katoch princes were driven into the hills, where Kangra already existed as one of their chief fortresses; and their restricted dominions appear afterwards to have fallen asunder into several minor principalities. Of these, Nürpur, Siba, Goler, Bangāhal, and Kāngra are included in Kāngra proper. In spite of constant invasions, the little Hindu kingdoms, secure within their Himālayan glens, long held out against the aggressive Muhammadan In 1000 the riches of the Nagarkot temple attracted the attention of Mahmud of Ghazni, who defeated the Hindu princes at Peshāwar, seized the fort of Kāngra, and plundered the shrine of an immense booty in gold, silver, and jewels. But thirty-five years later the mountaineers rose against the Muhammadan garrison, besieged and retook the fort, with the assistance of the Raja of Delhi, and set up a facsimile of the image which Mahmud had carried away. From this time Kangra does not reappear in general history till 1360, when the emperor Fīroz Tughlak again led a force against it. The Rājā gave in his submission, and was permitted to retain his dominions; but the Muhammadans once more plundered the temple, and dispatched the famous image to Mecca, where it was cast upon the high road to be trodden under the feet of the faithful.

Two hundred years later, in 1556, Akbar commanded in person an expedition into the hills, and succeeded in permanently occupying the fort of Kāngra. The fruitful valley became an imperial demesne, and only the barren hills remained in the possession of the native chiefs. In the graphic language of Akbar's famous minister, Todar Mal, 'he cut off the meat and left the bones.' Yet the remoteness of the imperial capital and the natural strength of the mountain fastnesses encouraged the Rājput princes to rebel; and it was not until after the imperial forces had been twice repulsed that the fort of Kāngra was starved into surrender to an army commanded by prince Khurram in person (1620). On the last occasion twenty-two chieftains promised obedience and tribute, and agreed to send hostages to Agra. At one time Jahāngīr intended to build a summer residence in the valley, and

the site of the proposed palace is still pointed out in the lands of the village of Gargari. Probably the superior attractions of Kashmir, which the emperor shortly afterwards visited, led to the abandonment of his design. At the accession of Shāh Jahān the hill Rājās had quietly settled down into the position of tributaries, and the commands of the emperor were received and executed with ready obedience. Letters patent (sanads) are still extant, issued between the reigns of Akbar and Aurangzeb, appointing individuals to various judicial and revenue offices, such as that of kārī, kānungo, or chaudhri. In some instances the present representatives of the family continue to enjoy privileges and powers conferred on their ancestors by the Mughal emperors, the honorary appellation being retained even where the duties have become obsolete.

During the period of Muhammadan ascendancy the hill princes appear on the whole to have been treated liberally. They still enjoyed a considerable share of power, and ruled unmolested over the extensive tracts which remained to them. They built forts, waged war upon each other, and wielded the functions of petty sovereigns. On the demise of a chief, his successor paid the fees of investiture, and received a confirmation of his title, with an honorary dress from Agra or Delhi. The loyalty of the hill Raias appears to have won the favour and confidence of their conquerors, and they were frequently deputed on hazardous expeditions, and appointed to places of high trust in the service of the empire. Thus in the time of Shah Jahan (1646), Jagat Chand, Raja of Nurpur, at the head of 14,000 Rajputs. raised in his own country, conducted a most difficult but successful enterprise against the Uzbeks of Balkh and Badakhshan. Again, in the early part of the reign of Aurangzeb (1661), Rājā Māndhāta, grandson of Jagat Chand, was deputed to the charge of Bāmiān and Ghorband on the western frontier of the Mughal empire, eight days' journey beyond the city of Kabul. Twenty years later he was a second time appointed to this honourable post, and created a mansabdar of 2,000 horse. In later days (1758), Rājā Ghamand Chand of Kāngra was appointed governor of the Jullundur Doab and the hill country between the Sutlei and the Ravi.

In 1752 the Katoch principalities nominally formed part of the territories ceded to Ahmad Shāh Durrāni by the declining Delhi court. But the native chieftains, emboldened by the prevailing anarchy, resumed their practical independence, and left little to the Durrāni monarch or the deputy who still held the isolated fort of Kāngra for the Mughal empire. In 1774 the Sikh chieftain, Jai Singh, obtained the fort by stratagem, but relinquished it in 1785 to Sansār Chand, the legitimate Rājput prince of Kāngra, to whom the State was thus restored about two centuries after its occupation by Akbar. This

prince, by his vigorous measures, made himself supreme throughout the whole Katoch country, and levied tribute from his fellow chieftains in all the neighbouring States. Every year, on fixed occasions, these princes were obliged to attend his court, and to accompany him with their contingents wherever he undertook a military expedition. For twenty years he reigned supreme throughout these hills, and raised his name to a height of renown never attained by any ancestor of his race. He found himself unable, however, to cope with the Sikhs, and two descents upon the Sikh possessions in the plains, in 1804 and 1804. were repelled by Raniit Singh. In 1805 Sansar Chand attacked the hill State of Bilaspur (Kahlur), which called in the dangerous aid of the Gurkhas, already masters of the wide tract between the Gogra and the Sutlei. The Gurkhas responded by crossing the latter river and attacking the Katochs at Mahal Mori, in May, 1806. The invaders gained a complete victory, overran a large part of the hill country of Kangra, and kept up a constant warfare with the Raiput chieftains who still retained the remainder. The people fled as refugees to the plains. while the minor princes aggravated the general disorder by acts of anarchy on their own account. The horrors of the Gurkha invasion still burn in the memories of the people. The country ran with blood, not a blade of cultivation was to be seen, and grass grew and tigers whelned in the streets of the deserted towns. At length, after three years of anarchy. Sansar Chand determined to invoke the assistance of the Sikhs. Ranift Singh, always ready to seize upon every opportunity for aggression, entered Kangra and gave battle to the Gurkhas in August, 1809. After a long and furious contest, the Mahārāiā was successful, and the Gurkhas abandoned their conquests beyond the Sutlei. Ranjit Singh at first guaranteed to Sansar Chand the possession of all his dominions except the fort of Kangra and 66 villages. allotted for the support of the garrison; but he gradually made encroachments upon all the hill chieftains. Sansar Chand died in 1824, an obsequious tributary of Lahore. His son, Anrudh Chand, succeeded him, but after a reign of four years abandoned his throne. and retired to Hardwar, rather than submit to a demand from Ranilt Singh for the hand of his sister in marriage to a son of the Sikh minister Dhian Singh. Immediately after Anrudh's flight in 1828. Ranift Singh attached the whole of his territory, and the last portion of the once powerful Kangra State came finally into the possession of the Sikhs.

Kāngra passed to the British at the end of the first Sikh War in 1846, but the commandant of the fort held out for some time on his own account. When the Multān insurrection broke out in April, 1848, emissaries from the plains incited the hill chieftains to revolt; and at the end of August in the same year, Rām Singh, a Pathānia Rājput,

collected a band of adventurers and threw himself into the fort of Shāhpur. Shortly afterwards, the Katoch chief rebelled in the eastern extremity of the District, and was soon followed by the Rājās of Jaswān and Datārpur, and the Sikh priest, Bedi Bikramā Singh. The revolt, however, was speedily suppressed; and after the victory of Gujrāt, the insurgent chiefs received sentence of banishment to Almorā, while Kāngra subsided quietly into a British District. After the outbreak of the Mutiny in 1857, some disturbances took place in the Kulū subdivision; but the vigorous measures of precaution adopted by the local authorities, and the summary execution of the six ringleaders and imprisonment of others on the occasion of the first overt act of rebellion, effectually subdued any tendency to lawlessness. The disarming of the native troops in the forts of Kāngra and Nūrpur was effected quietly and without opposition. Nothing has since occurred to disturb the peace of the District.

Few Districts are richer in antiquities than Kängra. The inscription at PATHYAR is assigned to the third century B.C., and that at KAN-HIARA to the second century A.D. It is impossible to fix the date of the famous fort at Kangra Town. A temple in it was plundered by Mahmud of Ghazni in 1000, and an imperfectly legible rock-inscription, formerly outside one of the gates of the fort and now in the Lahore Museum, is assigned to a period at least 400 years earlier. The small temple of Indreswara at Kangra dates from about the ninth century. The beautiful shrine of Baijnath at Kiragrama was formerly attributed to the same period, but recent investigations point to a date three or four centuries later. The present temple of Baireswari Devi at Bhawan, a suburb of Kānera, is a modern structure. but it conceals the remains of an earlier building, supposed to date from 1.440. It has acquired a repute, to which it is not entitled, as the successor of the temple that was sacked by Mahmud. Remains found at Kängra prove that it was once a considerable Jain centre. The fort at Nurrun, built in the sixteenth and seventeenth centuries, contains a curious wooden temple; and in 1886 a temple of much carlier date, with sculptures unlike anything hitherto found in the Punjab, was uncarthed. At Masrur, in the Dehra tahsil, are some rock-temples of uncertain date. In the Kulü valley, the principal objects of antiquarian interest are the temples of Bajaura. One of them, probably the older of the two, has been partially freed from the débris and boulders in which it was buried. The other, which shows traces of Buddhist workmanship, and dates from the eleventh century, is decorated with carvings of great beauty. The fort and temples of Kangra town received irreparable damage in the earthquake of 1005.

The population of the District at the last four enumerations was:

(1868) 743,882, (1881) 730,845, (1891) 763,030, and (1901) 768,124, dwelling in 3 towns and 715 villages. It is divided into the seven tahsils of Kāngra, Nūrpur, Hamīrpur, Dera Gopipur, Pàlampur, Kulū, and Sarāj; of which the first five are in Kāngra proper, the two last forming the Kulū subdivision. The head-quarters of these are at the places from which each is named, except in the case of Kulū and Sarāj, whose head-quarters are at Sultānpur and Banjār respectively. The towns are the municipalities of Dharmsāla, the head-quarters of the District, Kāngra, and Nīrprup

The following table shows the chief statistics of population in 1991:—

| | uare. | Number of | | g | i i | 8 g g _ 7 | d de co | |
|---|-----------------------------------|-----------|------------------------|---|--|--|---|--|
| Tahsil | Are to aquare miles. | Towns. | Villages | Population | Population square m | Percental variation population tween 18 | Number persons al read au | |
| Kāngra Pālampur Kulū and Sarāj Hamīrpur Dera Gopipur Nūrpur | 429 443 1,342 601 516 | 2 | 134 113 68 64 | 126,335 132,955 119,585 161,424 125,536 | 294·5 300·1 80·1 268·6 243·3 | + 1-0 + 2-6 + 3-8 - 0-8 | 7,242 7,477 3,183 6,077 6,397 | |
| District total | 5 ² 5 9,978 | 3 | 715* | 768,124 | 76.9 | + 0.6 | 34,617 | |

Note.—The figures for the areas of taksils are taken from revenue returns. The total District area is that given in the Censils Report.

'These figures are taken from the Censils Report of 1901, but the correct number of villages is now 714, the number for the Kuln and Saraj taksils being 67.

In Kāngra proper Hindus number 608,252, or 94 per cent. of the total; Muhammadans, 38,685, or 6 per cent.; and Sikhs, 1,199. Owing to the vast tracts of uncultivable hill-side, the density of the population is only 77 persons per square mile, varying from 300 in the Pālampur tahsī! to 65.4 in Kulū; but if the cultivated area alone be considered, the density is 834, almost the highest in the Province. The people speak a great variety of dialects of the group of languages classed together as Pahārī, or the language of the hills.

The distinguishing scature in the population is the enormous preponderance of the Hindu over the Muhammadan element, the latter being represented only by isolated colonies of immigrants, while the mass of the people have preserved their ancient faith in a manner wholly unknown in the plains. This circumstance lends a peculiar interest to the study of the Hindu tribes—their castes, divisions, and customs.

The Brāhmans (109,000) number nearly one-seventh of the total population. Almost without exception, they profess themselves to belong to the great Sāraswat family, but recognize an infinity of internal

subdivisions. The first distinction to be drawn is that between Brāhmans who follow, and Brāhmans who abstain from, agriculture. Those who have restricted themselves to the legitimate pursuits of the caste are considered to be pure Brāhmans; while the others are no longer held in the same reverence by the people at large.

The Rainuts number even more than the Brahmans, 154,000 people returning this honourable name. The Katoch Raias boast the bluest blood in India, and their prejudices and caste restrictions are those of a thousand years ago. The Katoch clan is a small one, numbering only 4,000. The Rathis (51,000) constitute the higher of the two great agricultural classes of the valley, and are found chiefly in the Nurour and Hamirour taksils. The other is the Ghirths (120,000), who are Sudras by status. In all level and irrigated tracts, wherever the soil is fertile and produce exuberant, the Chirths abound; while in the poorer uplands, where the crops are scapty and the soil demands severe labour to compensate the husbandman, the Rathis predominate. It is as rare to find a Rathi in the valleys as to meet a Chirth in the more secluded hills. Each class holds possession of its peculiar domain, and the different habits and associations created by the different localities have impressed upon each caste a peculiar physiognomy and character. The Rathis generally are a robust and handsome race: their features are regular and well-defined, their colour usually fair, and their limbs athletic, as if exercised and invigorated by the stubborn soil upon which their lot is thrown. On the other hand, the Ghirth is dark and coarse-featured, his body is stunted and sickly. and goitre is fearfully prevalent among his race. The Rathis are attentive and careful agriculturists; their women take little or no part in the labours of the field. The Ghirths predominate in the valleys of l'alam, Kangra, and Rihlu. They are found again in the Hal Dun or Harfpur valley, and are scattered elsewhere in every part of the District, generally possessing the richest lands and the most open spots in the hills. They are a most hard-working race.

Among the religious orders in the hills, the most remarkable are the Gosains (1,000), who are found principally in the neighbourhood of Nādaun and Jawāla Mukhi, but are also scattered in small numbers throughout the District. Many of them are capitalists and traders in the hills, and they are an enterprising and sagacious tribe. By the rules of their caste retail trade is interdicted, and their dealings are exclusively wholesale. Thus they possess almost a monopoly of the trade in opium, which they buy up in Kulū and carry down to the plains of the Punjab. They speculate also in charas, shawl-wool, and cloth. Their transactions extend as far as Hyderābād in the Deccan, and, indeed, over the whole of India.

Among the hill tribes the most prominent are the Gaddis (9,000).

Some have wandered down into the valleys which skirt the base of the Dhaola Dhār, but the great majority live on the heights above. They are found from an elevation of 3,500 or 4,000 feet up to 7,000 feet, above which altitude there is little or no cultivation. They preserve a tradition of descent from refugees from the Punjab plains, stating that their ancestors fled from the open country to escape the horrors of the Musalmān invasions, and took refuge in these ranges, which were at that period almost uninhabited. The term Gaddi is a generic name, under which are included Brāhmans and Khattrīs, with a few Rājputs, Rāthis, and Thākurs. The majority, however, are Khattrīs. Besides the Gosains, the commercial castes are the Khattrīs (7,000) and Sūds (6,000). Of the menial castes, the Chamārs (leather-workers) are the most numerous (57,000). About 77 per cent. of the population are returned as agricultural.

The Church Missionary Society has a station at Kāngra town, founded in 1854, with a branch establishment at Dharmsāla; and there is also a station of the Moravian Mission at Kyelang in Lāhul, founded in 1857, and one of the American United Presbyterian Mission in Sarāi. The District in 1991 contained 204 native Christians.

In the Kangra tahsil the subsoil rests on beds of large boulders which have been washed down from the main ranges, and the upper stratum, consisting of disintegrated granite mixed with detritus from later formations, is exceedingly

fertile. In the neighbourhood of the secondary ranges the soil, though of excellent quality, is less rich, being composed of stiff marls mixed with sand, which form a light fertile mould, easily broken up and free from stones. A third variety of soil is found wherever the Tertiary formation appears: it is a cold reddish clay of small fertility, containing a quality of loose water-worn pebbles; there are few trees in this soil, and its products are limited to gram and the poorer kinds of pulse, while in the first two descriptions the hill-sides are well forested and every kind of crop can be grown. The cultivated area is divided into fields generally unenclosed, but in some parts surrounded by hedges or stone walls. In the Kangra valley, where rice cultivation prevails, the fields descend in successive terraces levelled and embanked, and where the slope of the land is rapid they are often no bigger than a billiard table; in the west of the Dera and Nürpur tahsils, where the country is less broken the fields are larger in size, and the broad sloping fields. red soil, and thick green hedges are charmingly suggestive of a Devonshire landscape. In many parts, and notably in the Kangra valley, wide areas bear a double harvest.

In Kulū proper the elevation is the chief factor in determining the nature of the crops sown, few villages lying as low as 3,000 feet and some as high as 9,000. In both Kāngra and Kulū proper the sowing

time varies with the elevation, the spring crop being sown from September to December and the autumn crop from April to July. The whole of Lāhul and Spiti is covered with snow from December to the end of April, and sowings begin as soon as the land is clear. For the District as a whole the autumn crop is the more important, occupying 53 per cent. of the area cropped in 1903-4.

The land is held, not as in the plains by more or less organized village communities, but by individual holders whose rights originated in a grant by a Rājā of a right of tenancy in the royal domains. In Kulū only forest and cultivable and cultivated lands have been measured, amounting to 1,342 square miles.

The area for which details are available from the revenue records of 1903-4 is 3,857 square miles, as shown below:—

| Tahsil. | Total. | Cultivated. | Irrigated. | i | Cultivable wante. | Forests.* |
|--------------|--------|-------------|------------|---|----------------------|-----------|
| Kāngra | 429 | 102 | 53 62 | | 37 | 264 |
| Pālampur , | 443 | 125 | б2 | 1 | 52 | 439 |
| Kulū | 1,054 | 67 | 14 | | 12 | 963 |
| Sarāj | 289 | 58 | 2 | | 12 | 200 |
| Hamimur. | 602 | 234 | 5 | | 101 | 205 |
| Dera Gopipur | 515 | 167 | 26 | ı | 121 | 136 |
| Nürpur | 525 | 170 | 22 | | 72 | 208 |
| Total | 3,857 | 923 | 184 | - | 407 | 2.221 |

^{&#}x27; The revenue returns include only a portion of the forest area,

Wheat is the chief crop of the spring harvest, covering 142 square miles; barley covered 97 square miles, and gram only 42. Maize and rice are the mainstay of the autumn harvest, covering 223 and 164 square miles respectively. Pulses covered 100 square miles. Of the millets, mandal, Italian millet, and china are the most important, There were 6,030 acres under cotton. The tea industry is an important one in Kängra, 15 square miles being under tea. There are 34 gardens owned by Europeans, and the total output is estimated at over a million pounds of tea annually 1. Potatoes, introduced shortly after annexation, are now largely cultivated in the higher hills; and the fields round the Gaddi peasants' houses, which formerly produced maize, wheat, or barley hardly sufficient to feed the families which owned them, now yield a very lucrative harvest of potatoes. In Kulü proper poppy is an important crop, covering 2,102 acres. The climate of Kulū is eminently suited for the production of all kinds of European fruits and vegetables, and several European planters do a large trade in pears and apples. In Lahul barley, wheat, peas, and buckwheat are the principal crops, and in Spiti barley.

¹ This was written before the earthquake of 1905, which had disastrous effects on the tea industry.

The chief improvements in agriculture have been the introduction of tea and the potato. The cultivated area increased by about 5 per cent. during the ten years ending 1900, owing to the efforts of individuals who have broken up waste land near their holdings; but there is no scope for any considerable increase. Loans from Government are not greatly in demand, the total amount advanced under the Agriculturists' Loans Act during the five years ending 1903-4 being only Rs. 208.

The indigenous breed of cattle is small but strong, and attempts to improve it by the importation of bulls from Hissar have not been satisfactory, the latter being quite unsuited to the climate, and unfitted to mate with the small hill cows. A few bulls of the Dhanni breed have recently been imported from Jhelum District, and it is hoped that they will prove more suitable. The Guiars are the only people who make a trade of selling milk and ghi, and who keep herds of buffaloes: of these, some have a fixed abode in the District and pasture their cattle in the adjoining waste, while others move with their herds, spending the summer on the high ranges, and the winter in the woody parts of the low hills. Buffalo herds are not allowed to enter the Kulu subdivision. The cattle of Lahul are a cross between the Tibetan vak and the Himālayan breed of cattle. Sheep and goats form in Kāngra proper the chief support of the pastoral tribe of the Gaddis, who move with their flocks, wintering in the forests in the low hills, retreating in the spring before the heat up the sides of the snowy range, and crossing, and getting behind it to avoid the heavy rains in the summer. Large flocks are also kept in the Kulū and Sarāi tahsīls. There are few ponies in the District and not many mules; the ponies of Kangra and Kulū proper are poor, but those of Lāhul and Spiti are known for their hardiness and sureness of foot. One pony stallion is maintained by the District board.

Of the total area cultivated in 1903-4, 184 square miles, or nearly 20 per cent., were classed as irrigated. Irrigation is effected entirely by means of channels from the hill streams which lead the water along the hill-sides, often by tortuous channels constructed and maintained with considerable difficulty, and distribute it over the fields. One of these cuts, from the Gaj stream, attains almost the dimensions of a canal, and the channels from the Beās are also important. Most of these works were engineered by the people themselves, and supply only the fields of the villages by which they were constructed; but a few, for the most part constructed by the Rājās, water wider areas, and an organized staff for their maintenance is kept up by the people without any assistance from Government. In Lāhul and Spiti cultivation is impossible without irrigation, and glacier streams are the chief source.

The forests are of great importance, comprising little short of a quarter of the uncultivated area. Under the Forest department are 87 square miles of 'reserved,' 2,809 of protected, and 296 of unclassed forests, divided into the two Forest divisions of Kāngra and Kulū, each under a Deputy-Conservator. About 4 square miles of unclassed forests are under the Deputy-Commissioner. Several varieties of bamboo cover the lower hills, the bamboo forests occupying an area of 14,000 acres. The produce exported from the Government forests in Kāngra proper is mainly chil (Pinus longifolia) and bamboo, while deodār is the chief product of Kulū. In 1003-4 the forest revenue was 2-8 lakhs.

Valuable metal ores are known to exist both in Kangra proper and in Kulū; but, owing chiefly to the want of means of carriage, of fuel. and of labour, they are practically unworked. Iron was smelted for some years in the Kangra hills, and in 1882 there were eight mines yielding 90 maunds of iron a year; but working ceased entirely in 1807. Ores of lead, copper, and antimony have been found and in Kulü silver and crystal, while gold in small quantities is sometimes washed from the sands of the Beas and Parbati; coal, or rather lignite, is also produced, but in insignificant quantities. A lease of the old Shigri mines in Lähul has recently been granted for the purpose of working stibnite and galena. With this exception, the only minerals at present worked are slates and sandstone for building: the Kangra Valley Slate Company sells 700,000 slates annually, and three other quarries produce together about 83,000, the total value exceeding Rs. 50.000. Several hot mineral springs near Jawala Mukhi are impregnated with iodide of potassium and common salt. springs occur at several places in Kulū, the most important being at Manikarn in the Parbati valley, and at Bashist near the source of the Beas.

The District possesses no factories except for the manufacture of tea, and there are but few hand industries. The cotton woven in the villages holds its own against the competition of European stuffs, but the industry is seriously handicapped by the small quantity of cotton grown locally. Nürpur used to be a seat of the manufacture of pashmina shawls, but the industry has long been declining; silver ornaments and tinsel printed cloths are made at Kängra. Baskets are made in the villages of Kängra proper and Kulü, and blankets in Kulü, Lähul, and Spiti.

The principal exports to the plains consist of rice, tea, potatoes, spices, opium, blankets, pashmina, wool, ghi, honey, and beeswax, in return for which are imported wheat, maize, gram and other pulses, cotton, tobacco, kerosene oil, and piece-goods. The chief centres of the Kängra trade in the plains are Hoshiārpur, Jullundur, Amritsar,

and Pathankot. There is a considerable foreign trade with Ladākh and Yārkand through Sultānpur in Kulū, the exports being cotton piece-goods, indigo, skins, opium, metals, manufactured silk, sugar, and tea, and the imports ponies, borax, charas, raw silk, and wool. The principal centres of internal trade are Kāngra, Pālampur, Sujānpur Tira, Jawāla Mukhi, and Nūrpur.

No railway traverses the District, though one from Pathānkot to Pālampur was contemplated. The principal roads are the Kāngra valley cart-road, which connects Pālampur and Pathānkot, with a branch to Dharmsāla, and the road from Dharmsāla, via Kāngra, to Hoshiārpur and Jullundur. The former is partly metalled and a mail tonga runs daily. A road runs from Pālampur to Sultānpur in Kulū over the Dulchi pass (7,000 feet), which is open summer and winter, going on to Simla. Another road runs through Kulū, and, crossing the Rohtang pass (13,000 feet) into Lāhul, forms the main route to Leh and Yārkand. Ladākh is reached from Lāhul over the Bārā Lācha (16,250 feet). The usual route to Spiti is through Lāhul and over the Kanzam pass. The total length of metalled roads is 56 miles, and of unmetalled roads 1,073 miles. Of these, all the metalled and 353 miles of the unmetalled roads are under the Public Works department, and the rest under the District board.

Famine is unknown, the abundance of the rainfall always assuring a sufficient harvest for the wants of the people, and the District was classed by the Irrigation Commission of 1903 as secure. The area of crops matured in the famine year 1899-1900 amounted to 69 per cent. of the normal.

The District is in charge of a Deputy-Commissioner, aided by three Assistant or Extra-Assistant Commissioners, of whom one is in charge of the Kulū subdivision and one in charge of the District treasury. Kāngra proper is divided into the five tahsīls of Kāngra, Nūrpur, Hamīrpur, Dera Gopipur, and Pālampur, each under a tahsīldār and a naib-tahsīldār; the Kulū Subdivision, consisting of the Kulū tahsīl under a tahsīldār and a naib-tahsīldār, the Sarāj tahsīl under a naib-tahsīldār; and the mountainous tracts of Lāhul and Spiti, which are administered by local officials termed respectively the thākur and nono. The thākur of Lāhul has the powers of a second-class magistrate and can decide small civil suits; the nono of Spiti deals with all classes of criminal cases, but can punish only with fine. The criminal administration of Spiti is conducted under the Spiti Regulation I of 1873. Two officers of the Forest department are stationed in the District.

The Deputy-Commissioner as District Magistrate is responsible for the criminal justice of the District, under the supervision of the Sessions Judge of the Hoshiarpur Sessions Division. The subdivisional officer of Kulū hears appeals from the tahsīldār of Kulū, the naib-tahsīldār of Sarāj, the thākur of Lāhul, and the nono of Spiti. Civil judicial work in Kāngra proper is under a District Judge, under the Divisional Judge of the Hoshiārpur Civil Division. In Kulū the subdivisional officer generally exercises the powers of a District Judge, and the Deputy-Commissioner of Kāngra, if a senior official, is appointed Divisional Judge of Kulū. The only Munsif sits at Kāngra, while there are seven honorary magistrates, including the Rājās of Lambāgraon, Nādaun, and Kutlehr in Kāngra proper. The District is remarkably free from serious crime. Civil suits are chiefly brought to settle questions of inheritance involving the rights inter se of widows, daughters, and distant agnatic relatives.

The revenue history and conditions differ radically from those of the Puniah proper. The hill states, now combined in Kangra District. were merely a number of independent manors. Each Raja enjoyed full proprietary rights, and was a landlord in the ordinary sense of the word, leasing his land at will to individual tenants on separate pattas This fact explains the two prominent characteristics of the revenue system, its variety and its continuity. Just as, on the one hand, the intimate local knowledge of the Rājā and his agent enabled them to impose a rent fixed or fluctuating, in cash or kind, according to the resources and the needs of each estate, so, on the other hand, the conquerors. Mughal and Sikh, imposed their tribute on the several Raias, leaving them to devise the source and the method of collection. The Mughals, it is true, reserved certain areas as imperial demesnes, and here they introduced chaudhris who were responsible both for the collection of the revenue and for the continued cultivation of the soil. They made no change, however, either in assessments or in methods of collection. The Rājās depended on their land-agents (called variously kardar, hakim, amin, or halsara), and these in turn had under them the kotwals, who were responsible for eight or ten villages apiece. The village accountant, or kāyāt, the keeper of the granary (kotiāla), with constables, messengers, and forest watchers, made up the revenue staff. Every form of assessment was to be found, from the division of the actual produce on the threshing-floor to permanent cash assessments.

Ranjīt Singh was the first to interfere with the Rājās' system. He appointed a nāzim, or governor of the hill territory, who managed not only the revenue, but the whole expenditure also. Under him were kārdūrs, who either farmed the revenue of their parganas, or accepted a nominal salary and made what they could. The ancient system, however, has survived the misrule of the Sikhs. Every field in the valley is clearly defined; and the proportion of its produce payable to Government is so firmly established that, even under the present cash

assessments, it forms the basis on which the land revenue is distributed among individual cultivators.

The first act of the British officers was to apply the village system of the plains to the Kängra valley. The tenants, with their private cultivating rights, became the proprietary body, with joint revenue-paying responsibilities. The waste, formerly regarded as the property of the Rājās, became attached to the village communities as joint common land. The people thus gained the income arising from the common land, which had previously been claimed by the state.

A summary settlement was made in 1846 by John Lawrence, Commissioner of the Jullundur Doāb, and Lieutenant Jake, Assistant Commissioner, based entirely on the Sikh rent-roll with a reduction of 10 per cent. The first regular settlement, made in 1849, reduced the demand on 'dry' land by 12 per cent., maintaining the former assessment on 'wet' land. A revised settlement, made in 1866-71, had for its object the preparation of correct records-of-rights; but the assessment was not revised until 1889-94, when an increase of 19 per cent. was announced. Rates varied from Rs. 1-5-4 to R. 0-14-7 per acre. The total demand in 1903-4, including cesses, was about 10-7 lakhs. The average size of a proprietary holding is 2 acres. There are a number of large jāgārs in the District, the chief of which are Lambāgraon, Nādaun, and Dādo Sība in Kāngra proper, and wasīri Rūpi in Kulū.

A system of forced labour known as begār was in vogue in the Kāngra hills until recently, and dates back from remote antiquity. All classes who cultivate the soil were bound to give, as a condition of the tenure, a portion of their labour for the exigencies of the state. Under former dynasties the people were regularly drafted and sent to work out their period of servitude wherever the ruler chose. So inveterate had the practice become that even artisans, and other classes unconnected with the soil, were obliged to devote a portion of their time to the public service. Under the British Government the custom was maintained for the conveyance of travellers' luggage and the supply of grass and wood for their camps, but was practically abolished in Kāngra proper in 1884, and in Kulū in 1896.

The collections of land revenue alone and of total revenue are shown below, in thousands of rupees;—-

| | | | 1880-1. | 1890-1- | 1900-1 | 1903-4. |
|-------------------------------|---|---|--------------|--------------|---------------|---------------|
| Land revenue Total revenue | : | : | 6,19 8,76 | 6,57 9,92 | 7,35 10,57 | 7,50 10,55 |

The District contains three municipalities, DHARMSĀLA, KĀNGRA, and NŪRPUR. Outside these, local affairs are managed by a District board, and by the local boards of Kāngra, Nūrpur, Dera Gopipur,

Hamīrpur, and Pālampur, the areas under which correspond with the tahsīls of the same names. The chief source of their income is the local rate, a cess of Rs. 8-5-4 per cent. on the land revenue in Kāngra, of Rs. 10-6-8 in Kulū, and of Rs. 7-8-10 in the wazīri of Spiti.

The expenditure in 1903-4 was Rs. 1,45,000, public works being the principal item.

The District is divided into 15 police stations, 13 in Kängra proper and 2 in Kulü; and the police force numbers 412 men, with 901 village watchmen. The Superintendent usually has three inspectors under him. The jail at head-quarters contains accommodation for 150 prisoners. It has, however, been condemned as unsafe, and a new one is in contemplation.

Kangra stands seventh among the twenty-eight Districts of the Province in respect of the literacy of its population. In 1901 the proportion of literate persons was 4.5 per cent. (8.4 males and 0.3 females). The number of pupils under instruction was 2.501 in 1880-1, 3,881 in 1800-1, 3,341 in 1900-1, and 3,852 in 1903-4. In the last year the District contained 6 secondary and 57 primary (public) schools for boys and o for girls, and 3 advanced and 20 elementary (private) schools, with 266 girls in the public and 38 in the private schools. The principal educational institution is the high school at Palampur, founded in 1868, and maintained by the District board. There are 5 middle schools for boys, of which 2 are Anglo-vernacular: 3 of these are maintained by the District board and 2 are aided. The total expenditure on education in 1903-4 was Rs. 35,000, of which Rs. 7,000 was derived from fees, Rs. 4.000 from Government grants, and Rs. 2.000 from subscriptions and endowments. Municipalities contributed Rs. 4,000, and the balance was paid out of District funds.

Besides the civil hospital at Dharmsāla, the District has 8 out lying dispensaries. In 1904, 739 in-patients and 101,159 out-patients were treated, and 1,769 operations were performed. The expenditure was Rs. 19,000, of which Rs. 14,000 was met from District and Rs. 3,000 from municipal funds.

The number of successful vaccinations in 1903-4 was 40,825, representing the high proportion of 53 per 1,000 of the population. Vaccination is compulsory in Dharmsāla.

[H. A. Rose, District Gazetteer of Kängra Proper (1905), A. Anderson, Settlement Report of Kängra Proper (1897); A. H. Diack, Gazetteer of Kulū, Lähul, and Spiti (1897), The Kulū Dialect of Hindi (1896), and Settlement Report of Kulū Subdivision (1898).]

Kangra Tahsil.—Tahsil of Kangra District, Punjab, lying between 31° 54' and 32° 23' N. and 76° 8' and 76° 41' E., with an area of 429 square miles. The tahsil lies entirely in the hills, between the 1)haola 1)har, which separates it from Chamba on the north, and the

Kātidhār hills on the south. The Bāngangā and Gaj flow through it in a south-westerly direction to join the Beās. The main range of the Dhaola Dhār and its spurs are in many places covered with forest. The population in 1901 was 126,335, compared with 125,138 in 1891. It contains the towns of Dhanmsāla (population, 6,971) and Kāngra (4,746), the head-quarters; and 134 villages, of which Kanhiāra and Chari are of archaeological interest. The land revenue and cesses in 1903-4 amounted to 2 lakhs.

Kangra Town (Nagarkot) or Kot Kangra). - Town in Kangra District, Punjab, formerly the head-quarters of the District and still the head-quarters of the Kangra talisil, situated in 30° 5' N, and 76° 16' E. Population (1901), 4.746. Lying on the northern slope of the low ranges which run through the centre of the District, it faces Dharmsāla and commands a fine view of the Kānera valley. In its lower suburb (called Bhawan) was the temple of Devi Baireshri. whose gilded cupola was, until the earthquake of 1905, a conspicuous landmark, and which contained a late Sanskrit inscription of about 1430 dedicated to Jawala Mukhi and mentioning Sansar Chand I, the Katoch king of Kangra. On the lofty ridge south of and above the town stood Kot Kangra or 'the fort,' surrounded on three sides by inaccessible cliffs. In its highest part were the dwellings and temples of the old Katoch kings of Kangra. The town, with the fort and temples, was destroyed by the carthquake of April 4, 1005, in which 1.330 lives were lost in the town. Seven Europeans were among the killed

Kängra has from time immemorial been a stronghold of the Katoch Rajās. Firishta, in his introductory chapter parrating the exploits of a former king of Kanauj, who overran the hills from Kumaun to Kashmir, subduing 500 petty chiefs, distinctly alludes to the Rājā of Nagarkot. The riches of the temple attracted the attention of Mahmud of Ghazni, who in 1009 took the fort and plundered the temple, carrying off, it is said, 700,000 golden dinars, 700 mans of gold and silver plate, 200 mans of pure gold in ingots, 2,000 mans of unwrought silver, and 20 mans of jewels, including pearls, corals, diamonds, and rubies. The temple plundered by Mahmūd was probably situated within the fort and was not the temple of Devi in Bhawan, as has been supposed. Thirty-five years later the place is said to have been recaptured after a siege of four months by the Hindu princes under the Rājā of Delhi. Kāngra submitted to Fīroz Shāh in 1360, who again plundered the temple; and in 1388 prince Mahmud Tughlak, when a fugitive from Delhi, found an asylum here till called to the throne in 1390. Kängra was permanently garrisoned under the Mughals, and should have passed to Ahmad Shah Durrani in the

¹ Nagarkot appears to have been the name of the town and Kängra of the fort.

cession of 1752; but the governor, Saif Alı Khān, refused to surrender it, and maintained himself in the fort for twenty years. After his death in 1774, Sansār Chand, Rājā of Kāngra, laid siege to the fort and, being unable to reduce it, called in the Sikh leader Jai Singh, Kanhaya, to whom, and not to the Rājā, it surrendered. Jai Singh, however, withdrew in 1785, and Sansār Chand possessed himself of the fort. Kāngra was besieged from 1806 to 1809 by the Gurkhas, who were only repelled by the aid of Ranjīt Singh. In return for his services the Mahārājā appropriated for himself the fort, which was held by the Sikhs when the Jullundur Doāb was ceded to the British in 1846. The governor refusing to surrender, the fort was invested and capitulated after a two months' siege. The head-quarters of the District were first fixed at Kāngra, but were transferred to Dharmsālu in 1855.

The temple of Devi above mentioned was one of the most ancient and famous shrines in Northern India, and was largely resorted to by pilgrims from the plains at the great festivals held in March, April, and October. The municipality was created in 1867. The income during the ten years ending 1902-3 averaged Rs. 5,500, and the expenditure Rs. 5,300. In 1903-4 the income was Rs. 5,600, chiefly derived from octroi; and the expenditure was Rs. 6,500. Its position on the Kängra valley cart-road makes it an important centre of internal trade. The chief educational institution is an Anglo-vernacular middle school maintained by the Church Missionary Society, which has a station here. There is a Government dispensary.

Kangundi Tahsil.—Zamīndāri tahsīl in the south-west corner of North Arcot District, Madras, lying between 12° 35' and 12° 56' N. and 78° 14' and 78° 35' E., with an area of 347 square miles. It comprises the Kangundi zamīndāri. The head-quarters are now the village of Kuppam, which is also the residence of the zamīndār; but the tahsīl gets its name from the village of Kangundi, which was formerly the chief town in this part of the country. The population rose from 54,052 in 1891 to 64,446 in 1901, the increase during the decade (19 per cent.) being the highest in any portion of the District. The increase was largely due to the existence of several gold-mines, a continuation of those in the adjoining Kolār Gold Fields, in the part which borders on Mysore State. The number of villages is 268. The peshkash (including cesses) payable to Government in 1903-4 amounted to Rs. 29,500.

Kangundi Village. Village in the samindari tahsil of the same name in North Arcot District. Madras, situated in 12° 46′ N. and 78° 27′ E. Population (1901), 637. It was once the chief place in the neighbourhood and the residence of the zamindar of Kangundi, but has been depopulated by fever and famine. It lies at the base

KANI 399

of a precipitous hill, crowned with the ruins of a fort which must have been a place of great strength. The samindār's old palace is also an imposing pile.

Kanheri Caves.-Caves in Thana District, Bombay, situated in a wild picturesque valley in the heart of the island of Salsette, in 19° 13' N. and 72° 59' E., about 6 miles from Thana. They may be reached from the Bhandup station of the Great Indian Peninsula Railway, or from the Boriyli station of the Bombay, Baroda, and Central India Railway. The name Kanhagiri, perhaps a Prākrit corruption of the Sanskrit Krishnagiri or 'Krishna's hill,' seems to show that the fame and holiness of Kanheri date from before the rise of Buddhism. From the simple style of some of them, and an inscription in the caves at Nāsik, it is presumed that they date from roo H.C. to A.D. 50. Additions both of fresh caves and of new ornaments in old caves seem to have been made in the fourth, fifth, and sixth centuries A.D. The caves consist of numerous dwellings and some chaitvas or relic shrines. In all, there are upwards of a hundred excavations. Except the chaitras and the peculiarly planned cave known as the Darbar cave. they have stone sleeping benches running round the walls. There are some fifty-four inscriptions, which have been partly deciphered and relate the names of the builders. The cathedral or large chaitra cave is the most important of the group. In front of it were once two or three relic mounds, of which the largest was built of stone and brick and was from 12 to 16 feet high. The Darbar cave or 'place of assembly' is the next largest, and is distinguished by two long low seats or benches running down the whole length of the centre.

[For a full description of the Kanheri caves, see *Bombay Gazetteer*, vol. xiv, pp. 121-95.]

Kanhiāra. -Village in the District and tahsīl of Kāngra, Punjab, situated in 32° 12′ N. and 76° 24′ E., 4 miles east of Dharmsāla. Population (1901), 3,446. The name is a corruption of Krishnavashas-ārāma, according to Cunningham, or possibly Krishna-vihāra. An inscription cut on two massive granite blocks in the Brahmi and Kharoshthi scripts found here would appear to prove the existence of a Buddhist monastery (ārāma) at this place in the second century A. D. Slate is quarried at and round the village. Kanhiāra suffered seriously from the earthquake of April 4, 1905.

[Archaeological Survey Reports, vol. 1, p. 177; and Epigraphia Indica, vol. vii, p. 116.]

Kani.—Northernmost township of the Lower Chindwin District, Upper Burma, lying on both sides of the Chindwin river, between 22° 2' and 22° 50' N. and 94° 16' and 95° 5' E., with an area of 1,788 square miles. The population was 41,232 in 1891, and 48,717 in 1901, distributed in 256 villages, Kani (population, 1,097), about

400 KANI

40 miles above Monywa, on the right bank of the Chindwin, being the head-quarters. A large portion of the township consists of 'reserved' forests, and the whole is hilly and well watered. Cultivation is confined to the narrow valleys in that portion lying west of the Chindwin, and to the flatter part east of the river. The area cultivated in 1903-4 was 32 square miles, and the land revenue and thathameda amounted to Ry, 1,11,000.

Kanigiri Tāluk.— Tāluk of Nellore District, Madras, lying between 15° 1' and 15° 35' N. and 79° 5' and 79° 41' E., with an area of 1,014 square miles. It is bounded on the south by the Udavagiri tāluk. and on the east for some distance by the Malakonda range of hills. The population, which was 131,222 in 1801, had fallen in 1001 to 110.813. a succession of bad seasons having caused large numbers to emigrate. The demand on account of land revenue and cesses in 1001-1 The tāluk contains one town, KANIGIRI amounted to Rs. 65,000. (population, 5,528), the head-quarters; and 188 villages. Only 14 of the latter belong to Government, and 22 are shrotriens, interspersed among the more numerous samindari villages of the KALAHASTI and Venkatagiri Estates. The head-quarters, formerly at Mogallur, a zamindāri village, were removed to Kanigiri in 1870. Besides the tilluk office, there is a District Munsif's court at this place. The general aspect of the country is forbidding. Treeless plains of red sand stretch in all directions. At Kanigiri there is a block of rocky hills. In the north-western corner near Nandanayanam some remarkable sandhills from 20 to 30 feet in height spread over a considerable area. They are probably formed of detritus from the neighbouring hills drifted by the force of the fierce land-wind. Wells are fairly numerous. The Paleru, the Manneru, and their affluents, rising among the ranges of hills to the west, drain the taluk. Ragi and cambu are the staple food-crops. Aruga is also grown and is preferred to the others as a food. Rice is imported. Education is backward, and not a few villages are to be found where the village accountant is the only person who can read and write. The taluk is wanting in facilities for irrigation. There are a few tanks, of which nine belong to Government. but none of them commands any considerable area. Various irrigation projects are under consideration, and the Hajipuram project. to impound the freshes of the Dommaleru, is in progress.

Kanigiri Town.—Head-quarters of the tāluk of the same name in Nellore District, Madras, situated in 15° 25′ N. and 79° 31′ E. Population (1901), 5,528. The town has a large market, to which cotton goods and iron are imported from Madras, chillies and tobacco from Kistna, and sundry articles from the Ceded Districts. Spinning instruments, razors, and seissors are manufactured and largely exported; the slippers made here are considered superior to those in other parts

of the District; and the granite of the Kanigiri hill supplies excellent building stone. This hill rises to a considerable height on the north of the town, forming a feature in the landscape for many miles round. On it is a rugged table-land about a square mile in area, where a town is said to have once stood. It is supposed to have been fortified by one of the Gajapatis of Orissa and designated Kanakagiri Vijayamārtānda Durgam, combining the name of the hill with that of the deity to whom a temple on it was dedicated. The remains of some of the defences still stand. The place was taken in the sixteenth century by Krishna Deva of Vijayanagar, and played a conspicuous part in local feuds until it was destroyed by Haidar Alī.

Kanjamalai.—Hill in the District and tāluk of Salem, Madras, situated in 11° 37' N. and 78° 4' E., and 3,238 feet in height. It is a conspicuous object in the Salem landscape, with its hog-backed shape and its serrated ridges, and is widely known for its rich stores of magnetic iron ore. There are five separate beds of this, and the supply is almost inexhaustible. It often contains as much as 40 per cent, of iron. Vast quantities of the ore of these beds have rolled down the sides of the hill, especially to the south, where not only does the extensive talus consist mainly of it, but the fields for one or two miles from the hill are thickly strewn with rolled fragments of all sizes. The Kanjamalai iron was the source of supply of the ill-fated Porto Novo Iron Company. which crected blast furnaces at PORTO Novo in the early years of the nineteenth century, but eventually collapsed. Since then no mining has been done here. Two firms hold licences to prospect in the hill, but no definite steps have yet been taken to extract any ore. At the foot of the hill is the famous temple of Siddharkovil.

Kanjarda.--Petty State in Kathtawar, Bombay.

Kankanhalli Taluk. — Southern taluk of Bangalore District, Mysore, lying between 12° 15' and 12° 49' N. and 77° 14' and 77° 38' E., with an area of 623 square miles. The population rose from 71,868 in 1891 to 83,557 in 1901. The taluk contains one town, Kankanhall (population, 5,588), the head-quarters; and 252 villages. The land revenue demand in 1903–4 was Rs. 1,02,000. The Arkāvati enters the tāluk on the north-west, and flows into the Cauvery, which forms the southern boundary. The south is occupied by high hills and forests, with extensive grazing-grounds. Rāgi, avare, and castor-oil are the chief crops of the open parts. Tamarinds, coco-nuts, and mulberry are grown along the streams. The soils are generally shallow and rocky.

Kānkānhalli Town.—Head quarters of the tāluk of the same name in Bangalore District, Mysore, situated on the Arkāvati river, in 12° 33′ N. and 77° 26′ E., 36 miles south of Bangalore city. Population (1901), 5,588. The fort was built by Jagadeva Rāya of Channa-

patna about 1577, and taken by the Mysore troops in 1630. Tipu twice destroyed the town to prevent its giving shelter to the British army marching on Seringapatam. The name is properly Kānakāranahalli, the village of the Kānakāra or 'landed proprietor.' To this family in 1648 was granted Channarāyapatna (Hassan District). The municipality dates from 1870. The receipts and expenditure during the ten years ending 1901 averaged Rs. 1,800 and Rs. 1,900. In 1903-4 they were Rs. 2,200 and Rs. 2,300.

Kanker.—Feudatory State in the Central Provinces, lying between 20° 6' and 20° 14' N. and 80° 41' and 81° 48' E., with an area of 1.420 square miles. It is bounded on the north by Drug and Raipur Districts: on the east by Raipur; on the south by the State of Bastar: and on the west by Chanda. The head-quarters are at Kanker, a village with 3,006 inhabitants, situated on a small stream called the Dudh, 30 miles by road from Dhamtari station on the Rainur-Dhamtari branch of the Bengal-Nagour Railway. Most of the State consists of hill and forest country; and except in the eastern portion along the valley of the Mahānadi there are no extensive tracts of plain land, while the soil of the valley itself is interspersed with outcrops of rock and scattered boulders. The Mahānadī enters Kānker at a short distance from its source, and flows through the eastern part of the State, receiving the waters of numerous small streams from the hills. Gneiss of a granitoid character is the prevailing rock formation. The principal forest trees are teak, sal (Shorea robusta), sirsa (Dalbergia latifolia), and Miāsāl (Pterocarbus Marsubium). The ruling chief belongs to a very old Rajput family, and according to tradition his ancestors were raised to the throne by a vote of the people. During the supremacy of the Haihaivansi dynasty of Chhattisgarh, the chief of Kanker is shown in an old record as in subsidiary alliance with the ruling power, and as having held the Dhamtarl tract within their territories. Under the Marathas the Kanker State was held on condition of furnishing a military contingent 500 strong whenever required. In 1800 the chief was deprived of Känker, but was restored to it in 1818 by the British Resident administering the Nagpur territories, on payment of a tribute of Rs. 500. This was remitted in 1823 on the resumption by the Government of certain manorial dues, and since then no tribute has been paid. The present chief, Lal Kamal Deo, was installed in 1904. The population in 1901 was 103,536, having increased by 26 per cent. during the previous decade. Gonds form more than half the total, and there are also a number of Halbas. Chhattisgarhi and Gondi are the languages spoken.

The soil is for the most part light and sandy. Nearly 300 square miles, or 21 per cent. of the total area, were occupied for cultivation in 1904, and 284 square miles were actually under crop. Rice covers

nearly 130 square miles and kodon 32. The cultivated area has increased largely in recent years. There are 21 tanks which irrigate about 350 acres. The recent opening of a branch line to Dhamtari has brought the considerable forests of the State within reach of the railway, and a large income is obtained from sales of timber. About 333 square miles are tree forest. The State contains 51 miles of metalled and 75 miles of unmetalled roads; the principal metalled road is from Dhamtari to Känker.

The total revenue in 1004 was Rs. 1.56.000, the principal heads of receipt being land revenue (Rs. 67,000), forests (Rs. 60,000), and excise (Rs. 20,000). The incidence of land revenue is less than 4 annas per acre of cropped area. The principal items of expenditure were Rs. 45,000 for the maintenance of the ruling family, Rs. 13,000 on general administration, Rs. 8,300 on police, Rs. 4,200 on education, and Rs. 1.400 on land revenue settlement. During twelve years since 1892-3 a total of Rs. 1,14,000 has been expended on public works, under the supervision of the Engineer of the Chhattisgarh States division. Besides the roads already mentioned, an office building, jail. schools, post office, and sarai or native travellers' resthouse have been constructed at Kanker. The State supports one vernacular middle and 16 primary schools, with a total of 1,316 pupils. Only gos persons were returned as able to read and write in 1001, the proportion of male literates being 1.7 per cent, of the population. A dispensary is maintained at Känker. A Political Agent under the supervision of the Commissioner, Chhattisgarh Division, controls the relations of the State with Government.

Kankrei (or Thara). -- A collection of petty estates under the Palanpur Agency, Bombay, with a total area of 810 square miles. They are bounded on the north by Palanpur; on the east by a subdivision of Baroda territory; on the south by Radhanpur State; and on the west by the Palanpur estates of Diodar. The population in 1901 was 38,829, compared with 38,842 in 1801. The first connexion of the British Government with the States of Kankrej dates from the formation in 1819-20 of the Mahi Kantha Agency, in which they were included till 1844, when, on account of their nearness to Palanpur, they were transferred to the Palanpur Agency. Kankrej comprises 26 different estates, the chief of which are Thara, Un, and Kamboi, most of them held by Rajputs who have intermarried with Koli women. The largest and most important estate is Thara, whose chiefs are Vaghela Kolis by caste; and these, by refusing to eat with their brethren, have been allowed to intermarry with Raiput houses, and are now generally admitted as belonging to the Rajput tribe. The principal village in Kānkrej is Thara, 5 miles north of which is Kākar, the ancient capital of the State, with some ruined temples.

Kankroli .-- Chief town of an estate of the same name in the State of Udainur, Rainutana, situated in 25° 4' N. and 73° 53' E., about 36 miles north-by-north-east of Udaipur city. The town contains (1001) 2.052 inhabitants, and is the head-quarters of a Gosain who is a descendant of Vallabhāchārva. The estate, which consists of 21 villages situated in different parts of Mewar, is held by him as a muafi or free grant from the Mahārānā. To the north of the town lies the Rāj Samand, a fine sheet of water a miles long by 14 miles broad, with an area of about 3 square miles. The lake is formed by a dam built at the south-western end by Rānā Rāi Singh between 1662 and 1676. Its construction served to alleviate the sufferings of a starying population. and it is the oldest known famine relief work in Raiputana. It is said to have cost about 70 lakhs. The dam forms an irregular segment of a circle nearly a miles long; the northern portion, which lies between two hills, is about 200 yards long and 70 yards broad, and is entirely faced with white marble from the adjacent quarries. Along the front, a flight of steps descends to the water's edge, while jutting out into the lake are three marble pavilions, all richly sculptured in different patterns. At one end of the embankment is the temple of Dwarka Dhish, one of the seven forms of Krishna; and the image now worshipped there is said to be the identical one brought to Rajputana in 1660 by the descendants of Vallabhāchārva when they left Muttra from fear of Aurangzeb. On a hill to the north-east are the remains of a large Jain temple, said to have been built by Rānā Rāj Singh's minister, Daval Sah. Its spire was partly destroyed by the Marathas and replaced by a round tower, but it is still a picturesque ruin.

[]. Fergusson, Picturesque Illustrations of Ancient Architecture (1841). | Kanksiäll. Petty State in Kathawar, Bombay.

Kannad.—North-western tāluk of Aurangābād District, Hyderābād State, with an area of 769 square miles. The population in 1901, meluding jāgīrs, was 88,901, compared with 82,887 in 1891. The tāluk contains 236 villages, of which 68 are jāgār, and Kannad (population, 3,609) is the head-quarters. The land revenue in 1901 was 1-9 lakhs. From the Gaotāla hill, 7 miles north of Kannad, the Gaotāla ghāt descends into Khāndesh. The Contingent troops, sent in pursuit of the Bhīls in 1830, were encamped on this hill for six months.

Kānor.—Chief town of an estate of the same name in the State of Udaipur, Rājputāna, situated in 24° 26′ N. and 74° 16′ E., about 38 miles east-by-south-east of Udaipur city. Population (1901), 4,300. The Kānor estate, which consists of 110 villages, is held by one of the first-class nobles of Mewār, who is termed Rāwat and belongs to the Sārangdevot family of the Sesodia Rājputs. The income is about Rs. 32,000, and a tribute of Rs. 2,500 is paid to the Darbār.

Kanora.—Petty State in Rewa Kantha, Bombay.

Kanpar Ishwaria. - Petty State in Kathiawan, Bombay.

Kānpur.—Principal village in Narsinghpur, one of the Orissa Tributary States, Bengal, situated in 20° 24′ N. and 85° 11′ E., on the Mahānadī. Population (1901), 1,727. Kānpur has a bi-weekly market, and a trade in grain, cotton, oilseeds, and sugar-cane.

Kāntanagar, — Village in the Thākurgaon subdivision of Dinājpur District, Eastern Bengal and Assam, situated in 25° 48′ N. and 88° 39′ E. It is the site of a fine eighteenth-century Hindu temple to Kāntajī (Vishnu), the family god of the Rājā of Dinājpur. The foundation was laid in 1704, but the finest portion was not completed till 1772: the temple was badly damaged in the earthquake of 1897. The place is much resorted to, and an annual fair is held here at the time of the Rāsh festival in October-November.

[Martin, Eastern India, vol. ii, p. 628.]

Kanth.— Town in the Amroha tahsil of Morādābād District, United Provinces, situated in 29° 3′ N. and 78° 37′ E., 17 miles north-west of Morādābād city. Population (1901), 7,092. The town contains a branch of the American Methodist Mission. It is administered under Act XX of 1856, with an income of about Rs. 1,600. There is a small local industry in cotton cloth and sugar. The middle school has 146 pupils.

Kantharia. -- Petty State in Kathiawar, Bombay.

Kanthi.— Subdivision and village in Midnapore District, Bengal. See CONTAL.

Kantigale. -- Another name of ZINGKALING HEANTI, a Shan State in the Upper Chindwin District of Burma.

Kantigyi,—Collection of Shan States north of the Myitkyinā District of Upper Burma. See HKAMTI LONG.

Kantilo. - Village in Khandparā, one of the Orissa Tributary States, Bengal, situated in 20° 22′ N. and 85° 12′ E., on the right bank of the Mahānadī. Population (1901), 4,719. It is situated on the Cuttack-Sonpur road, and is 7 miles from the Rājā's residence. It is a considerable seat of trade, but has somewhat declined in importance since the opening of the Bengal-Nāgpur Railway. The manufacture of brass-ware is largely carried on.

Kānu .-- Village in Burdwan District, Bengal. See KHĀNA.

Kapadvanj Tāluka.—Northern tāluka of Kaira District, Bombay, lying between 22° 52′ and 23° 7′ N. and 72° 50′ and 73° 19′ E., with an area of 279 square miles. The tāluka is in shape an oblong, 15 miles long and 30 miles broad, and contains one town, KAPADVANI (population, 15,405), the head-quarters, and 87 villages. The population in 1901 was 75,258, compared with 101,527 in 1891. The density is only 270 persons per square mile, the District average

being 449. The land revenue and cesses in 1903-4 amounted to 1-8 lakhs. Towards the south and west, Kapadvanj is a rich and well-cultivated plain clothed with trees. The Mohar and the Vātrak flow through it, but these streams are of little use for irrigation, being highly charged with soda. The water-supply generally is scanty. Bājra, rice, jowār, and maize are the staple crops.

Kapadvani Town.--- Head-quarters of the tāluka of the same name in Kaira District, Bombay, situated in 23° 1' N. and 73° 5' E. Population (1901), 15.405. Near the walls, which protect the place. are the ruins of an ancient town, the scene of some hard-fought battles during the Maratha ascendancy. It was exchanged for Bijapur in 1817. Kapadyani derives its importance from lying on one of the main trade routes between Central India and the coast. The principal objects of interest in the town are a fine reservoir with a well in the centre, and an arch in the Chālukva (1000-1300) style of architecture. A sacred pool, with traditional healing qualities, is inside the well. South of the pool is an underground temple of Mahadeo, which was discovered in A.D. 1044, if popular tradition is to be relied on. The idol appears to have been placed underground to protect it from the iconoclastic real of early Musalman invaders. Of modern buildings that of most note is a Jain temple, the interior of which is righly ornamented with marble pillars, and has a marble pavement inlaid with delicacy and taste. The municipality was established in 1863. The average receipts for the decade ending 1901 were Rs. 15,000; and the income in 1903-4 was Rs. 16,000, chiefly derived from a house and land tax. Precious stones, such as agate and onyx, are found in large quantities in the bed of the Mohar, a rocky stream half a mile north of the town. Manufactures are soap, glass, and leathern butter-jars. The most important article of trade is grain. Besides supplying a considerable local demand, Kapadyani goods are exported to the Panch Mahāls, Bālāsinor territory, and Central India. The town contains a Sub-Judge's court, a dispensary, and 11 schools (o for boys, including an English school with 52 pupils, and 2 for girls), which are attended by 804 and 258 pupils respectively.

Kapilavastu. The city where Buddha was born, and the ancient capital of the Sākyas, from whose royal house he was descended. For many years it was believed that Kapilavastu was on the site now occupied by Bhuilā Dīh in the Bastī District of the United Provinces. A re-examination of the narratives of the Chinese pilgrims, and the identification of other sites, had already caused doubts as to the correctness of this view, when, in 1895, an inscription was found on a pillar at Niglīvā, in the Nepāl tarai, 31 miles north-west of the Uska Bāzār railway station. This inscription recorded a visit by Asoka and repairs to the stūpa of Konāgāmana. The latter building is described

KAPILI 407

in Buddhist literature as close to Kapilavastu, and it was therefore thought that the site had been definitely fixed. Further investigation showed, however, that no remains of the stude existed in the neighbourhood, and that the pillar itself was not in its original position. In 1806 another pillar was found a mile north of the village of Paderia in Nepāl, and two miles north of the Nepālese tahsīl station at Bhagwānpur. An inscription showed that it had been raised by Asoka at the Lumbini garden to mark the birthplace of Buddha. The sacred books of the Buddhists state that Buddha was born at the Lumbini garden close to Kapilavastu, and the place is still called Rummin-dei, while a Hindu temple hard by contains a representation of the miraculous birth of Buddha. The pillar itself is split down the middle, thus agreeing with the statement of Hiuen Tsiang, who described it in the seventh century A.D., as having been struck by lightning. The neighbourhood, in which there are many mounds and remains of buildings. has not been fully explored, so that the exact site of Kapilavastu is not known, but it must be within a few miles of Paderia. The accounts of the Chinese pilgrims disagree: and it has been suggested that the sites shown to them were not the same, and that Fa Hian believed Kapilavastu to be represented by Piprahwa in Basti District, o miles south west of Rummin-dei, while Hiuen Tsiang was taken to a different place, Tilaura Kot, 14 miles north-west of the garden. The locality was almost deserted when they visited it.

[See Report on the Antiquities in the Tarai by the late P. C. Mukherji, with prefatory note by V. A. Smith (Calcutta, 1901).]

Kapili.—River of Assam, which rises on the northern slopes of the Jaintia Hills, Eastern Bengal and Assam, and, after a course of 161 miles, falls into the Kalang at Jagi, near the western end of Nowgong District. It receives the Doiang, which carries off the whole of the drainage of the extreme north of Cachar District, and, in addition to numerous other minor streams, the Jamuna, Barpani, and Umiam or Kiling. A branch channel connects it with the Kalang at Rahā, 20 miles east of its main junction with that river. In the rainy season the Kapili is navigable by boats of 4 tons burden up to Panimur, the place at which it leaves the hills; but progress beyond this spot is checked by a barrier of rocks, over which the river is precipitated in a fine waterfall. During the dry season boats of this size cannot proceed farther than Kampur. In the hills the Kapili flows along a rocky channel; in the plains its course is through low-lying land, and its banks are for the most part covered with dense jungle grass. Most of the hill trade, which consists of cotton, lac, and eri silk comes down the Kapili to Chaparmukh, and is dispatched thence by rail or country boat to Gauhāti. The Assam-Bengal Railway crosses the river on a brick bridge 500 yards in length, but this is largely in

408 KAPILI

excess of the actual breadth of the channel at most seasons of the year. The principal places on its banks are Chāparmukh, Jamunāmukh, Khārikhāna, and Dharamtul. The floods of this river do considerable damage. Efforts have been made by the villagers to protect their lands, by constructing an embankment for about 7 miles along the southern bank from Deonarikoli to Magurgaon in the Sahari mauza.

Kapilmuni.—Village in the head-quarters subdivision of Khulnā District, Bengal, situated in 22' 42' N. and 89° 19' E., on the Kabadak. Population (1901), 362. Kapilmuni is connected by steamer service with Jlingergācha station on the Eastern Bengal State Railway, and possesses a bi-weekly market. A large annual fair, held in March in honour of the goddess Kapileswarī, is attended by 6,000 or 7,000 persons.

Kapini. -River in Mysore District, Mysore. See KABBANI.

Kapsi.—Estate in Kolhapur State, Bombay.

Kapurthala State. - Native State in the Punjab, under the political control of the Commissioner, Jullundur Division, lying between 31° 9' and 31° 44' N. and 75° 3' and 75° 59' E., with an area of 652 1 square miles. The population in 1001 was 314.341, giving an average density of 400 persons per square mile. The State consists of three detached pieces of territory, the principal of which is an irregular strip of country on the east bank of the Beas, varying in breadth from 7 to 20 miles, and measuring in all 510 square miles. It stretches from the borders of Hoshiarpur District on the north to the Sutlej on the south, while on the east it is bounded by fullundur District. This portion of the State lies, for the most part, in the Beas lowlands, and is roughly bisected from north to south by the White or Western Bein. The Phagwara tahsil, which measures 118 square miles, is enclosed by Iullundur District on all sides except the north-east, where it marches with Hoshiarour. The rest of the territory consists of a small block of villages, known as the Bhunga ilāka, which forms an island in Hoshiar pur District. Both these tracts lie in the great plain of the Doab, which contains some of the best land in the Province, and are traversed by the torrents which issue from the Siwāliks, the most important of which, known as the Black or Eastern Bein, passes through the north of the Phagwara tahsil. The State lies entirely in the alluvium, and the flora

Physical aspects. and fauna resemble those of the neighbouring Districts. The climate is generally good, except in the lowlands during the rainy season. The rainfall is heaviest in Bholath and lightest in the Sultanpur talisal. The average is much the same as in Jullundur.

These figures do not agree with the area given in Table III of the article on the PUNJAB, and in the table on p. 470 of this article, which is the area as returned in 1901, the year of the latest Census. They are taken from more recent returns. The density is taken from the Census Report of 1901.

The ancestors of the chief of Kapurthala at one time held possessions both in the cis- and trans-Sutlei and also in the Bari Doab. the latter lies the village of Ahlū, whence the family History. springs, and from which it takes the name of Ahlūwālia. The scattered possessions in the Bāri Doāb were gained by the sword in 1780, and were the first acquisitions made by Sardar lassa Singh, the founder of the family. Of the cis-Sutlei possessions, some were conquered by Sardar Jassa Singh, and others were granted to him by Mahārājā Ranjīt Singh prior to September, 1808. By a treaty made in 1800, the Sardar of Kapurthala pledged himself to furnish supplies to British troops moving through or cantoned in his cis-Sutlei territory; and by declaration in 1800 he was bound to join the British standard with his followers during war. In 1826 the Sardar, Fatch Singh, fled to his cis-Sutlei territory for the protection of the British Government against the aggressions of Mahārājā Ranjīt Singh. This was accorded. but in the first Sikh War the Kapurthala troops fought against the British at Alīwāl; and, in consequence of these hostilities and of the failure of the chief, Sardar Nihal Singh, son of Sardar Fateh Singh, to furnish supplies from his estates south of the Sutlei to the British army, these estates were confiscated. When the Jullundur Doab came under the dominion of the British Government in 1846, the estates north of the Sutlei were maintained in the independent possession of the Ahlūwālia chieftain, conditional on his paving a commutation in cash for the service engagements by which he had previously been bound to Ranjit Singh. The Bari Doab estates have been released to the head of the house in perpetuity, the civil and police jurisdiction remaining in the hands of the British authorities. In 1840 Sardar Nihāl Singh was created a Rājā. He died in September, 1852, and was succeeded by his son, Randhir Singh. During the Mutiny in 1857 the forces of Randhir Singh, who never hesitated or wavered in his loyalty, strengthened our hold upon the Jullundur Doab; and afterwards, in 1858, the chief led a contingent to Oudh which did good service in the field. He was well rewarded; and among other concessions obtained the grant in perpetuity of the estates of Baundi and Ikaunā (in Bahrāich District) and Bhitaulī (in Bāra Banki District) in Oudh, which have an area of 700 square miles, and yield at present a gross revenue of about 13.5 lakhs. Of this, 3.4 lakhs is paid to Government as land revenue and cesses. In these estates the Rājā exercises no ruling powers, though in Oudh he is, to mark his superiority over the ordinary tālukdārs, addressed as Rājā-i-Rājagān. This title was made applicable to the Raja in Oudh only, and not in the Rājā Randhīr Singh died in 1870, and was succeeded by his son, Rājā Kharrak Singh. The present Rājā, Jagatjit Singh, son of Kharrak Singh, succeeded in September, 1877, attaining his majority

in 1890. The chiefs of Kapūrthala are Sikhs. Sardār Jassa Singh was always known as Jassa Kalāl; but the family claim descent from Rānā Kapūr, a semi-mythical member of the Rājput house of Jaisalmer, who is said to have left his home and founded Kapūrthala 900 years ago. The Rājā has the right of adoption and is entitled to a salute of 11 guns.

SULTANPUR is built on a very ancient site, but the only architectural remains of interest are two bridges and a sarai. The sarai and one of the bridges are attributed to Jahängīr, while the other bridge is said to have been built by Aurangzeb. The two princes, Dārā Shikoh and Aurangzeb, are said to have lived for some time in the sarai and to have received instruction there from Akhund Abdul Latīf, an inhabitant of the place.

The State contains 603 villages and three towns: KAPÜRTHALA, SULTĀNPUR, and PHAGWĀRA. There are five tahsils: namely, KAPÜR-

Population. THALA, DHILWAN, BHOLATH, PHAGWARA, and SULTANPUR, each with its head-quarters at the place from which it is named. The population at the last three enumerations was: (1881) 252,617, (1891) 299,690, and (1901) 314,351.

The main statistics of population in 1901 are given in the following table:—

| Tahsil | Are in square index | Nun | per of | Population. | Population per square mile. | Percentage of variation in population be tween 1891 and 1901. | Number of personvable to vrad and write. |
|--------------|------------------------|-----|--------|-------------|--------------------------------|---|---|
| Kapürthala . | 121 | 1 | 110 | 57,314 | 474 | + 8.2 | 2,708 |
| Dhilwan . | 110 | i ' | 103 | 48,985 | 444 | + 4-1 | 1,202 |
| Bholath | 127 | | 126 | 62,270 | 490 | + 07 | 1,971 |
| Phagwara . | 118 | 1 | 88 | 69,837 | 592 | + 9.2 | 2,846 |
| Sultanpar . | 176 | 1 | 176 | 75,945 | 432 | +10 | 1,904 |
| State total | 630 | 3 | 603 | 314,351 | 499 | + 4.6 | 10,631 |

Note,-The figures for the areas of taketts are taken from recenue teturns. The total State area is that given in the Census Report

About 57 per cent. of the population are Muhammadans, 30 per cent. Hindus, and only 13 per cent. Sikhs. The percentage of Muhammadans is considerably higher than in the neighbouring Districts and States. In density of population Kapūrthala stands first among the Punjab States and is surpassed by only five of the British Districts. Punjābi is the language of practically all the inhabitants. Among the Muhammadans the most numerous castes are Arains (51,000), Rājputs (24,000), and Jats (14,000). Among Hindus, Jats number 15,000, and Brāhmans 10,000, while the principal menial castes are Chūhrās (sweepers, 21,000) and Chamārs (leather-workers, 12,000). Sikhs are most numerous among the Jats (20,000) and the Kambohs (12,000). Nearly 68 per cent. of the population are dependent on agriculture.

The proportion is higher than in any Punjab District in the plains except Hissar, and is slightly above the average for the States of the Province. Most of the trade is in the hands of Khattris, who number 7,000. Christians number only 39; there is no mission in the State.

The greater portion of the Sultanpur, Dhilwan, and Bholath tahsils lies in the lowlands (Bet) of the Beas. Wells are used to irrigate the lands in the Bet, except in years of excessive floods. In the sandy tracts known as the Dona there are irrigation wells. There are a few strips of land where the soil is too saline for cultivation. The Kapūrthala tahsil, as it includes only a small portion of the Bet, is the least fertile, and most of it lies in the Dona tracts. There are many wells in the tahsil, but owing to the insufficiency of rainfall and the nature of the soil, the area irrigated by each well is small. The other portions of the State are fertile, and receive amole irrigation either from hill torrents or from wells.

The main statistics of cultivation in 1903-4 are shown in the following table, in square miles:--

| | is <i>il</i> , | | | Total area. | Cultivated. | Itrigated | Cultivable waste. |
|------------|----------------|----|-----|-------------|-------------|-----------|-------------------|
| Kapürthala | | | | 131 | 91 | 12 | 16 |
| Dhilwan . | | | | 110 | ēā | 17 | 17 |
| Bholath . | | | | 127 | 78 | at | 10 |
| Phagwāra | | | | 118 | бy | 18 | , کد |
| Sultanpur | | | | 176 | 110 | 19 | 55 |
| Ĺ | | Tu | tal | 654 | 404 | 67 | 134 |

The tenures of the State present no peculiarities. A few villages are owned by the Rājā, but most are held by agricultural communities. The staple agricultural products, with the area in square miles under each in 1903-4, are as follows wheat (200), gram (59), maize (47), cotton (9), and sugar-cane (15).

The system of State advances to agriculturists was established in 1876 by Mr. (now Sir C.) Rivaz, the Superintendent of the State, and the total amount advanced during the ten years ending 1903-4 was Rs. 2,13,000.

The cattle bred locally are of an inferior type and the best animals are imported. Efforts are being made to improve the local breed, and a number of Hissār bulls have been introduced. The horses, like those in other parts of the Jullundur Doāb, are small; but six stallions, the property of the State, are located at convenient centres, with the object of improving the breed. Mule-breeding has recently been introduced, and the State maintains 6 donkey stallions. A horse and cattle fair is held every year at Kapūrthala town.

vol. xiv. n d

The area irrigated in 1903-4 from wells was 87 square miles; that inundated from the overflow of the Beas and the Western Bein was 68 square miles. In the lowlands, the only kharif crops that can be grown are sugar-cane and rice. In the rabi harvest, the wheat and gram are usually excellent. The floods from the hill torrents are often held up by dams and spread over the fields for the irrigation of sugarcane, rice, &c., by means of small channels. Sometimes the water is raised by means of jhalārs, worked in the same way as Persian wheels. In most parts of the State the wells are masonry, but along the rivers or hill torrents unbricked wells are dug for temporary use, especially in seasons of drought. In a year of light rainfall, such as 1899-1900, the area watered by wells may rise as high as 109 square miles. The area irrigated by a single masonry well varies from 5 acres in the sandy tracts of the Kapūrthala tahsu to 7 acres in the Bet. The total number of masonry wells in 1903-4 was 9,304.

There are five 'reserved' forests in the State, covering an area of about 42 square miles. They are kept chiefly as game preserves, and no revenue is derived from them. The grass growing in them is used as folder for the transport mules, State horses, and elephants.

The State lies wholly in the alluvium, and the only mineral product of importance is *kankar*, which merely supplies local requirements.

Sultānpur is famous for hand-painted cloths, which are made up into quilts, bed-sheets, jāzams (floorcloth), curtains, &c., and in the form of jāzams, curtains, and tablecloths are exported to Europe. Phagwāra is noted for its metal-work.

The State exports wheat, cotton, tobacco, and sugar in large quantities. Phagwara has a large and increasing trade in grain; and as the grain market is free from octroi, it has attracted a good deal of the trade which formerly went to Jullundur and Ludhiana.

The main line of the North-Western Railway passes through the Phagwara, Kapurthala, and Dhilwan tathsils, but Phagwara is the only town on the railway. The grand trunk road runs parallel to the railway and at a short distance from it. It is maintained by the British Government. The total length of the metalled roads maintained by the State is about 25 miles, and of unmetalled roads 35 miles. The most important metalled roads are those connecting the capital with the railway at Kartārpur (7 miles) and at Jullundur (11 miles). The State maintains half of each of these roads. The British Post Office system extends to the State, which has no concern with the postal income or expenditure.

Cash rents prevail, and they are fixed according to the quality of the area leased. The rates vary from a minimum of 6 annas per acre for unirrigated land in the Kapūrthala tahsīl to a maximum of Rs. 9 per acre for land supplied by wells in the same tahsīl.

Tradition still keeps alive the memory of the famines of 1806 and 1865, when relief measures were undertaken by the State. The famine in 1899–1900 was less severe, but on that occasion also the sufferers were relieved by the distribution of grain and of Rs. 1,323 in cash, though it was not found necessary to start relief works.

The Commissioner of the Jullundur Division is the Agent to the Lieutenant-Governor for Kapūrthala. The Rājā has full powers. The State pays Rs. 1,31,000 as tribute to the British Government. The chief secretary (Mushīr-i-Azam) Administration. deals with all papers pertaining to State affairs, which are to be laid before the Rājā for orders, and conducts all correspondence with Government. He is also associated with the two other officials forming the State Council in carrying out the central administration under His Highness's control. For the purpose of general local administration the State is divided into five tahsils—Kapūrthala, Dhilwān, Bholath. Phagwāra, and Sultānpur.

The Indian Penal Code and the Procedure Codes are in force in the State, with certain modifications. Legislative measures are prepared by the State Council for the sanction of the Rājā. The main provisions of the Punjab Revenue Law are also generally followed in the State.

Each tahsil is in charge of a tahsildar, who is invested with powers to dispose of rent, revenue, and civil cases up to the limit of Rs. 300, and also exercises magisterial powers corresponding to those of a second-class magistrate in British Districts. The appeals in rent and revenue cases (judicial and executive side) against the orders of the talistidars are heard by the Collector, who also decides cases (revenue and judicial) exceeding Rs. 200. There is a Revenue Judicial Assistant who disposes of cases (revenue and judicial) exceeding Rs. 300 in the two tehsils of Dhilwan and Bholath. He also hears appeals against the orders of the tahsildars in those tahsils. Appeals against the orders of the Collector and the Revenue Judicial Assistant are preferred to the Mushir-i-Mal, whose orders are appealed to the State Council, which is the final appellate court in the State. Appeals in civil and criminal suits against the orders of the tahsildars are heard by the magistrate exercising the powers of a District Magistrate. He is assisted as a court of original jurisdiction by an assistant magistrate having the powers of a first-class magistrate. Appeals against the orders of the magistrate and assistant magistrate lie in the appellate court of the Civil and Criminal Judge, appeals from whose decisions are heard by the State Council. In murder cases the Rājā passes sentence of death or imprisonment for life.

The old system under which the revenue was realized in kind was

21

not done away with until 1865. The share of the State was two-fifths of the entire produce. On some crops, such as sugar-cane, &c., the State used to take its share in money. The revenue was actually collected by the State officials in kind, and stored up in the State granary and sold as required.

The land revenue at the date of British annexation of the Punjab was 5.7 lakhs. In 1865 the first settlement of the State was completed, and the demand was fixed at 7 lakhs. In 1877, during the minority of the present Rājā, the assessment was revised, and the demand raised to 7.7 lakhs. A further revision took place in 1900, when the revenue was raised to 8.7 lakhs. On this occasion the work was carried out entirely by the State officials. During the settlement of 1865, the first revenue survey was undertaken. It was completed in 1868. The rates for unirrigated land vary from 8 annas to Rs. 4 per acre, and for irrigated land from Rs. 3 to Rs. 9 per acre. The average rate for unirrigated land is Rs. 2-7, and for irrigated land Rs. 6-8 per acre.

Two of the State preserves, with an area of 2,200 acres, have been brought under cultivation. Occupancy rights in the greater part of one of these areas have been given to the cultivators on payment of a nazarāna at the rates of Rs. 30, Rs. 37-8, or Rs. 45 per acre, according to the quality of the soil; while the remaining portion is given out to tenants-at-will on payment of a nazarāna of Rs. 15 per acre. The total nazarāna realized in 1903-4 from the tenants was Rs. 76,000.

The following table shows the revenue of the State in recent years, in thousands of rupees:—

| | 1880 I. | 1890-1. | 1900-1. | 1903-4 |
|----------------------------|---------|---------|---------|--------|
| Land revenue Total revenue | 7,38 | 7,33 | 7,65 | 8,39 |
| | 19,08 | 21,45 | 24,38 | 27,17 |

Apart from land revenue, the main items of income in 1903-4 were: Oudh estates (10.7 lakhs), stamps (2.3 lakhs), cesses (1.7 lakhs), and jāgārs in the Districts of Lahore and Amritsar (0.4 lakh). The total expenditure in 1903-4 was 27.8 lakhs. The main items were: civil service, including tribute (7.7 lakhs), household (6.4), Oudh estates (5.4), public works (4.9), and army (1.9).

Spirit is distilled by licensed contractors in the State distillery. The rights of manufacture and vend are sold by public auction. A fixed charge of Rs. 25 is levied from each contractor for the use of the distillery, and a still-head duty of Rs. 4 per gallon is imposed on all spirit removed for sale. The receipts in 1903-4 were Rs. 21,000. Mālwā opium is obtained by the State from the British Government at the reduced duty of Rs. 280 per chest, up to a maximum of 8 chests annually. The duty so paid is refunded, with the object of securing

the co-operation of the State officials in the suppression of smuggling. The opium is retailed to the contractors at the rates prevalent in the neighbouring British Districts. Licences for the sale of hemp drugs are auctioned. *Charas* is imported from the Punjab and *bhang* from the United Provinces. The profit on opium and drugs in 1903-4 amounted to Rs. 11,000.

The towns of Kapūrthala and Phagwāra have been constituted municipalities. The nomination of the members requires the sanction of the Rājā. The municipality of Kapūrthala was established in 1896 and that of Phagwāra in 1904. There is a local rate committee for the State, which was established in 1901-2, and is presided over by the Mushīr-i-Māl. The income in 1903-4 was Rs. 15,000, derived mainly from a rate of Rs. 1-9 per cent. on the land revenue. The expenditure is devoted to unmetalled roads and other works of utility for the villages.

The Public Works department was first organized in 1860, and is under the charge of the State Engineer. The principal public works are the State offices, infantry and cavalry barracks, the college, hospitals, Villa Buona Vista, the great temple, and the Victoria sarai. The State offices cost 4.9 lakhs. A new palace is under construction.

The State maintains a battalion of Imperial Service Infantry at a cost of 1-2 lakhs; and the local troops consist of 66 cavalry, 248 infantry, 21 gunners with 8 serviceable guns, and a mounted body-guard of 20.

The police force, which is under the control of the Inspector-General, includes 3 inspectors, 1 court inspector, 5 deputy-inspectors, 15 sergeants, and 272 constables. The village chaukidārs number 243. There are six police stations, one in charge of an inspector and five in charge of deputy-inspectors. Besides the police stations, there are fifteen outposts. The jail at Kapūrthala has accommodation for 105 prisoners. Jail industries include carpet and darī making.

Three per cent of the population (5 males and 0.3 females) were returned as literate in 1901. The proportion is lower than in the adjoining British Districts and the States of Nābha and Farīdkot, but higher than in Patiāla and Jīnd. The number of pupils under instruction was 1,815 in 1880-1, 1,762 in 1890 1, 2,265 in 1900-1, and 2,547 in 1903-4. In the last year there were 27 primary and 5 secondary schools, and an Arts college at Kapūrthala. The number of girls in the schools was 205. All the primary and secondary schools, except those situated in the capital, are controlled by the director of public instruction, but the principal of the college is responsible for the schools at the capital. The course of instruction is the same as in British territory. The total expenditure on education in 1903-4 was Rs. 28,000.

The three hospitals in the State (the Randhīr Hospital, the Victoria Jubilee Female Hospital, and the Military Hospital) contain accommo

3

dation for 51 in-patients. There are also 4 dispensaries. In 1903 the number of cases treated was 71,642, of whom 984 were in-patients, and 1,991 operations were performed. The hospitals and dispensaries are in charge of the Chief Medical Officer. In 1904 the total number of persons successfully vaccinated was 5,739, or 18-2 per 1,000 of the population. Vaccination is not compulsory.

[State Gazetteer (in press); L. H. Griffin, The Rajas of the Punjah

(second edition, 1873).]

Kapūrthala Tahsil.—Tahsil of the Kapūrthala State, Punjab, lying between 31° 22' and 31° 35' N. and 75° 17' and 75° 35' E., with an area of 121 square miles. The population increased from 52,968 in 1891 to 57,314 in 1901. It contains one town, Kapūrthala (population, 18,519), and 110 villages. The land revenue and cesses in 1903-4 amounted to 1-7 lakhs. The tahsīl is the least fertile in the State. Only a small portion of it lies in the Beās lowlands; and the rest consists of a sandy plain beyond the reach of the floods, where the cultivation depends on irrigation from wells.

Kapūrthala Town.—Capital of the Kapūrthala State, Punjab, situated in 31° 23′ N. and 75° 25′ E., 8 miles east of the Beās, and 11 from Jullundur. Population (1901), 18,519. It is said to have been founded in the eleventh century by Rānā Kapūr of the Rajput ruling family of Jaisalmer, from whom the present Rājā of Kapūrthala claims descent. In 1780 it was wrested by Sardār Jassa Singh from the Muhammadan chieftain who had seized the town and its dependent villages on the break-up of the Mughal empire, and has since been the capital of the State. It contains the Rājā's palace and many other handsome edifices. The town is administered as a municipality, the income of which in 1903–4 was Rs. 13,000, chiefly derived from octroi, and the expenditure Rs. 18,000. It possesses the Randhīr College, a high school, a girls' school, and a hospital.

Karā.—Place of historic interest in Allahāhān District, United Provinces.

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